

UNIVERSITY OF MADRAS

THE CALENDAR FOR 1945-46

VOLUME I

PART II

STATUTES, ORDINANCES AND REGULATIONS.

THE
THEOLOGICAL COLLEGE
MADANAPALLE



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Revised Regulations and Syllabuses for the B.Sc. (Tech.) Degree.

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APPENDICES—SYLLABUSES, TEXT-BOOKS, &c.,

vide separate Volume.

THE CALENDAR FOR 1945.

JULY

| | | |
|------------|---|--|
| Sun | Agra University incorporated, 1927. | |
| M | Last day for receiving attendance certificates for the Examinations for the Diplomas in French and German. | |
| | Last day for submission of thesis for the Examination for the Diploma in Economics. | |
| Tu | | |
| W | | |
| Th | Last day for receiving attendance certificates for B.S.Sc. Part II Examination. | |
| | Last day of registration for Intermediate, B.A.; B.A. (Hons.) Preliminary, B.Sc., B.Sc. (Hons.) Part I, B.Sc. (Hons.) Part II (Subsidiary), B.T., B.Com. and B.O.L. (Pass) Parts I and II and B.O.L. (Hons.) Part I Examinations. | |
| 6 | F | |
| 7 | S | |
| 8 | Sun | |
| 9 | M | |
| 10 | Tu | Last day for receipt of applications for Research Studentships and Fellowships. |
| | | Examinations for the Diploma in Economics, Politics and Public Administration, French and Statistics. |
| | | Examination for the Diploma in German. |
| 11 | W | |
| 12 | Th | |
| 13 | F | |
| 14 | S | |
| 15 | Sun | |
| 16 | M | Last day for registration for F.L., B.L., and for all the Diplomas in Medicine and Surgery Examinations. |
| | | Last day for receiving attendance certificates for all the Diplomas in Medicine and Surgery Examinations. M.L. and B.S.Sc. Part II Examinations. |
| 17 | Tu | |
| 18 | W | University of Bombay incorporated, 1857. |
| 19 | Th | |
| 20 | F | |
| 21 | S | |
| 22 | Sun | University of Mysore incorporated, 1916. |
| 23 | M | |
| 24 | Tu | |
| 25 | W | <i>Shab-e-Barath</i> (Sectional Holiday for Muhammadans). |
| 26 | Th | |
| 27 | F | |
| 28 | S | |
| 29 | Sun | |
| 30 | M | |
| 31 | Tu | Last day for receipt of applications for exemption from the production of attendance certificates for Entrance Tests and for Oriental Title Examinations from private candidates and for O.T., Intermediate—Group D & B.O.L. (Pass & Honours) Examinations from <i>bona fide</i> teachers. |

Late applications for Examinations with an additional fee of Re. 1 will be accepted within five days after the prescribed date.

AUGUST

| | | |
|----|------------|---|
| 1 | W | Last day for receipt of reports from Colleges on the subjects and courses in which classes had not been opened for want of students. |
| 2 | Th | The Utkal University incorporated, 1943. |
| 3 | F | |
| 4 | S | |
| 5 | Sun | |
| 6 | M | Last day for the submission of Return of Staff as on 1st August. |
| 7 | Tu | |
| 8 | W | |
| 9 | Th | |
| 10 | F | |
| 11 | S | |
| 12 | Sun | Publication of results of B.S.Sc. (Part II) Examination. |
| 13 | M | |
| 14 | Tu | <i>Assumption Day</i> (Sectional Holiday for Roman Catholics). Last day for receiving attendance certificates for Intermediate, B.A., B.A. (Hons.) Preliminary, B.Sc., B.Sc. (Hons.) Part I and Part II Subsidiary, B.T., B. Com., B. O. L. (Pass) and B. O. L. (Honours) Part I Examinations. |
| 15 | W | |
| 16 | Th | |
| 17 | F | |
| 18 | S | |
| 19 | Sun | Publication of results of the Examinations for Diplomas in Economics, Pol. and Public Administration, Statistics, French and German. |
| 20 | M | |
| 21 | Tu | <i>Onam</i> (Holiday). |
| 22 | W | |
| 23 | Th | <i>Avani Avittam</i> (Holiday). |
| 24 | F | |
| 25 | S | |
| 26 | Sun | <i>Sri Jayanti</i> (Holiday). Last day for receipt of applications for registration for M.Litt., Ph.D., M.Sc. and M.O.L. Degrees and for receipt of applications and theses for M.Litt., Ph.D., D.Litt., M.Sc., D.Sc., LL.D. and M.O.L. Degrees. |
| 27 | M | |
| 28 | Tu | |
| 29 | W | |
| 30 | Th | |
| 31 | F | |

SEPTEMBER

| | | |
|----|-----|--|
| 1 | S | *Last day for receiving applications for pass certificates of Inter. Examination of March 1945. |
| 2 | Sun | |
| 3 | M | Intermediate, B.A., B.A. (Hons.) Preliminary, B.Sc., B.Sc. (Hons.) Part I, B.O.L. (Pass) Parts I & II and B.O.L. (Hons.) Part I, B.Com. and B.T. Examinations. Publication of results of M.L. Examination. |
| 4 | Tu | |
| 5 | W | University of Madras incorporated, 1857. |
| 6 | Th | |
| 7 | F | |
| 8 | S | The Indian Universities Act of 1904 came into force in the University of Madras, 1904. |
| 9 | Sun | Ramzan. |
| 10 | M | Vinayakachathurthi (Holiday). |
| 11 | Tu | Last day for receiving attendance certificates for F.L. and B.L. Examinations. |
| 12 | W | |
| 13 | Th | |
| 14 | F | |
| 15 | S | Last day for registration for B.V.Sc. Prely., Inter. and Final Examinations. |
| 16 | Sun | |
| 17 | M | |
| 18 | Tu | |
| 19 | W | |
| 20 | Th | |
| 21 | F | |
| 22 | S | |
| 23 | Sun | |
| 24 | M | |
| 25 | Tu | F.L. and B.L. Examinations. |
| 26 | W | |
| 27 | Th | |
| 28 | F | |
| 29 | S | |
| 30 | Sun | Last day for receipt of applications for exemption from <i>bona fide</i> teachers to appear for Matric., Inter., B.A. and M.A. Degree Examinations and from other private candidates for Matric. Examination, March, 1946. |

Note.—The date of commencement of all examinations and timetables in detail as finally fixed will be published in the *Gazette* in the preceding August.

Applications for certificates for examinations other than Intermediate should be made within a year from the date of publication of the results in the Fort St. George Gazette, failing which candidates should pay a late fee of Rs. 3/- each.

OCTOBER

| | | |
|----|------------|---|
| | M | University of Patna incorporated, 1917. Last day for receiving attendance certificates for B.V. Sc. Prel., Inter. and Final Examinations. Examination for the Diploma in Ophthalmology. |
| 2 | Tu | |
| 3 | W | |
| 4 | Th | |
| 5 | F | <i>Mahalaya Amavasai</i> (Holiday). |
| 6 | S | Publication of results of Inter., B.A., B.A. (Hons.) Prel., B.Sc., B.Sc. (Hons.) Part I and Part II (Sub- sidiary), B.Com., B.T., B.O.L. (Pass) and B.O.L. (Honours) Part I, Examinations. |
| 7 | Sun | Osmania University incorporated, 1918. |
| 8 | M | Last day of registration for Pre-Registration, First, Second and Final M.B. & B.S. and B.Sc. (Pharmacy) Prel. and Final Examinations. |
| 9 | Tu | |
| 10 | W | |
| 11 | Th | |
| 12 | F | |
| 13 | S | |
| 14 | Sun | University of the Punjab incorporated, 1882. |
| 15 | M | <i>Ayudha Puja</i> (Holiday) |
| 16 | Tu | B.V.Sc. Prel., Inter. and Final and Diplomas in Medicine & Surgery Examinations. Last day of registration for B. S. Sc. Part II Examin- ation. |
| 17 | W | |
| 18 | Th | |
| 19 | F | |
| 20 | S | |
| 21 | Sun | |
| 22 | M | |
| 23 | Tu | |
| 24 | W | |
| 25 | Th | |
| 26 | F | |
| 27 | S | |
| 28 | Sun | |
| 29 | M | The Madras University Amendment Act of 1929 came into force. |
| 30 | Tu | |
| 31 | W | Last day for receipt of applications from institutions for recognition, affiliation or approval in any University course or courses from the following academic year. |

Late applications for Examinations with an additional fee of Re. 1 will be accepted within five days after the prescribed date.

THE CALENDAR FOR 1945

NOVEMBER

| | | |
|----|-----|--|
| 1 | Th | University of Travancore incorporated, 1937. Last day for receipt of applications for scrutiny for purposes of appearing for the Matriculation Examination. |
| 2 | F | |
| 3 | S | <i>Deepavali</i> (Holiday). |
| 4 | Sun | |
| 5 | M | |
| 6 | Tu | |
| 7 | W | |
| 8 | Th | |
| 9 | F | |
| 10 | S | Last day for receiving attendance certificates for B.S.Sc. Part II Examination. |
| 11 | Sun | |
| 12 | M | Publication of results of F.L., B.L. and B.V.Sc. Prely., Inter. and Final Examinations. |
| 13 | Tu | |
| 14 | W | |
| 15 | Th | <i>Bakrid</i> (Holiday). |
| 16 | F | Last day of registration for Entrance Tests, O.T., B.O.L. (Pass and Honours) and Sangita Siromani Examinations. Publication of results of Examinations for the Diplomas in Medicine & Surgery. <i>Bakrid</i> (Sectional Holiday for Muhammadans) University of Allahabad incorporated, 1887. |
| 17 | S | |
| 18 | Sun | |
| 19 | M | |
| 20 | Tu | Last day for receiving attendance certificates for First, Second and Final M.B. & B.S. Examinations. B.S.Sc. Part II Examination. |
| 21 | W | |
| 22 | Th | |
| 23 | F | |
| 24 | S | |
| 25 | Sun | |
| 26 | M | |
| 27 | Tu | |
| 28 | W | |
| 29 | Th | |
| 30 | F | |

Late applications for Examinations with an additional fee of Re. 1 will be accepted within five days after the prescribed date.

DECEMBER

Publication in the *Gazette of India* in 1904, of the Chancellor's Declaration that the Body Corporate of the University of Madras had been constituted in accordance with the provisions of the Indian Universities Act, 1904.

University of Rangoon and Muslim University, Aligarh incorporated, 1920.

Last day of registration for B.S.Sc. (Part I) Examination.

Last day for receiving attendance certificates for Pre-Registration and B.Sc. (Pharmacy) Preliminary and Final Examinations.

First, Second and Final M.B. & B.S. Examinations.

| | | |
|----|------------|---|
| 2 | Sun | |
| 3 | M | |
| 4 | Tu | |
| 5 | W | |
| 6 | Th | |
| 7 | F | |
| 8 | S | |
| 9 | Sun | |
| 10 | M | Pre-Registration and B.Sc. (Pharmacy) Preliminary and Final Examinations. |
| 11 | Tu | University of Lucknow incorporated, 1920. |
| 12 | W | |
| 13 | Th | <i>Muharram 7th Day</i> (Sectional Holiday for Muhammadans). |
| 14 | F | |
| 15 | S | <i>Vaikunta Ekadasi</i> (Holiday). |
| 16 | Sun | <i>Muharram.</i> |
| 17 | M | Last day of registration for Matriculation, B.A. (Hons.) Final, B.Sc., (Hons.) Part II (Main subjects) and M.A. Examinations. |
| 18 | Tu | |
| 19 | W | |
| 20 | Th | Publication of results of First, Second and Final M.B. & B.S., and B.S.Sc. Part II Examinations. |
| 21 | F | |
| 22 | S | |
| 23 | Sun | |
| 24 | M | |
| 25 | Tu | <i>Christmas Day</i> (Holiday). |
| 26 | W | <i>Christmas</i> (Boxing Day) (Holiday). |
| 27 | Th | |
| 28 | F | |
| 29 | S | |
| 30 | Sun | |
| 31 | M | |

Late applications for Examinations with an additional fee of Re. 1 will be accepted within five days after the prescribed date.

THE CALENDAR FOR 1946

JANUARY

| | | |
|----|------------|--|
| | Tu | New Year's Day. (Holiday). Annamalai University, Annamalainagar incorporated, 1929. |
| 2 | W | |
| 3 | Th | |
| 4 | F | |
| 5 | S | Last day for receiving attendance certificates for B.S.Sc. (Part I) Examination. Publication of results of Pre-Registration and B.Sc. (Pharmacy) Preliminary and Final Examinations. |
| 6 | Sun | |
| 7 | M | |
| 8 | Tu | |
| 9 | W | |
| 10 | Th | Last day of registration for Inter., B.A., B.A. (Hons.) Preliminary, B.Sc., B.Sc. (Hons.) Part I and Part II (Subsidiary) and B.Com. Examinations. |
| 11 | F | |
| 12 | S | |
| 13 | Sun | |
| 14 | M | Pongal (Holiday). |
| 15 | Tu | B.S.Sc. Part I Examination. Last day of registration for F.E., B.E., B.Sc.Ag., B.Sc. (Tech.), B.T., M.Ed., F.L., B.L., M.L., Pre-Registration, First, Second and Final M.B. & B.S., M.D., M.S., B.Sc. (Pharmacy) Preliminary and Final, all Diplomas in Medicine and Surgery, Diploma in Economics, Diploma in Indian Music, Diploma in Geography, Diploma in Librarianship and Diploma in Politics and Public Administration Examinations. Last day for receiving attendance certificates for M.D., M.S., and for all the Diplomas in Medicine and Surgery Examinations. |
| 16 | W | University of Calcutta incorporated, 1857. |
| 17 | Th | |
| 18 | F | |
| 19 | S | |
| 20 | Sun | |
| 21 | M | |
| 22 | Tu | |
| 23 | W | |
| 24 | Th | |
| 25 | F | |
| 26 | S | Andhra University incorporated, 1926. |
| 27 | Sun | |
| 28 | M | |
| 29 | Tu | |
| 30 | W | |
| 31 | Th | Last day for receipt of applications for registration for M.Litt., Ph.D., M.Sc. and M.O.L. Degrees and for receipt of applications and theses for the M.Litt., Ph.D., D.Litt., M.Sc., D.Sc., LL.D. and M.O.L. Degrees |

Late applications for Examinations with an additional fee of Re. 1 will be accepted within five days after the prescribed date.

* Holidays noted in the Almanac are provisional and are subject to correction when the G.O. regarding Public Holidays is gazetted.

| FEBRUARY | | |
|----------|-----|---|
| 1 | F | *Last day for receiving applications for pass certificates of Intermediate Examination of September 1945. |
| 2 | S | |
| 3 | Sun | |
| 4 | M | Publication of results of B.S.Sc. Part I Examination. |
| 5 | Tu | |
| 6 | W | |
| 7 | Th | |
| 8 | F | |
| 9 | S | |
| 10 | Sun | |
| 11 | M | |
| 12 | Tu | |
| 13 | W | |
| 14 | Th | |
| 15 | F | <i>Meeladi-Nabi</i> (Holiday). |
| 16 | S | |
| 17 | Sun | |
| 18 | M | |
| 19 | Tu* | |
| 20 | W | |
| 21 | Th | |
| 22 | F | |
| 23 | S | |
| 24 | Sun | |
| 25 | M | |
| 26 | Tu | |
| 27 | W | |
| 28 | Th | Madras University Act VII of 1923 received the assent of the Governor of Madras. Last day for receipt of applications from <i>bona fide</i> teachers for exemption to appear for the Inter. and B.A. Degree Examinations of September 1946. |

* Applications for certificates for examinations other than Intermediate should be made within a year from the date of publication of the results in the Fort St. George Gazette, failing which candidates should pay a late fee of Rs. 3/- each.

MARCH

| | | |
|----|-----|---|
| | | Last day of registration for B.S.Sc. Part I Examination. |
| 2 | S | <i>Mahasivarathri</i> (Holiday). |
| 3 | Sun | |
| 4 | M | |
| 5 | Tu | |
| 6 | W | <i>Ash Wednesday</i> (Holiday). |
| 7 | Th | |
| 8 | F | |
| 9 | S | Last day for receiving attendance certificates for Matriculation, Intermediate, B.A., B.A. (Hons.) Preliminary and Final, M.A., B.Sc., B.Sc. (Hons.), F.E., B.E., B. Com., O.T., B.O.L. (Pass and Honours), and Sangita Siromani Examinations. |
| 10 | Sun | |
| 11 | M | |
| 12 | Tu | |
| 13 | W | |
| 14 | Th | |
| 15 | F | Last day of registration for the Examinations for Diploma in French, German and Statistics. |
| 16 | S | Rabi-u-Sani (Sectional Holiday for Muhammadans) |
| 17 | Sun | |
| 18 | M | |
| 19 | Tu | Last day for receiving attendance certificates for B.T., M. Ed., B.Sc. Ag., B. Sc. (Tech.), and Diploma in Economics Examinations. |
| 20 | W | Matriculation, Inter., B.A., B.A. (Hons.) Prely. and Final, M.A., B.Sc., B.Sc. (Hons.) (Parts I and II Main), F.E., B.E., B. Com., B.O.L. (Pass and Honours) and Sangita Siromani Examinations. Last day for receiving attendance certificates for, Pre-Registration, First, Second and Final M.B. & B.S., and B.Sc. (Pharmacy) Prely. and Final Examinations. |
| 21 | Th | The Indian Universities' Act, 1904, received the assent of the Governor-General. |
| 22 | F | |
| 23 | S | University of Dacca incorporated 1920. |
| 24 | Sun | |
| 25 | M | |
| 26 | Tu | |
| 27 | W | O.T. Prely. Examination. Last day for registration for B.V.Sc. Prely., Inter., and Final Examinations. |
| 28 | Th | |
| 29 | F | Madras University Act VII of 1923 received the assent of the Governor-General. |
| 30 | S | |
| 31 | Sun | |

Note—The dates of commencement of all examinations, and timetables in detail as finally fixed will be published in the *Gazette* in the preceding February.

THE CALENDAR FOR 1946

APRIL

| | | |
|------------|------------|--|
| M | | Hindu University, Benares incorporated, 1916. Pre-Registration, First, Second and Final M.B. & B.S., B.Sc. (Pharmacy) Prely. and Final, M.D., M.S., all Diplomas in Medicine & Surgery, B.T., M.Ed., First and Second B.Sc. Ag., and B. Sc. (Tech.) Examinations. Last day for receiving attendance certificates for F.L., B.L., Diploma in Indian Music, Diploma in Librarian- ship and Diploma in Geography Examinations. |
| Tu | | |
| W | | <i>Telugu New Year's Day</i> (Holiday). |
| Th | | |
| F | | Last day for receiving attendance certificates for B.S.Sc. Part I. |
| S | | |
| Sun | | |
| M | | B.Sc. Ag. Final Examination. Last day of receiving attendance certificates for B.V.Sc. Prely., Inter. and Final Examinations. |
| Tu | | |
| 10 | W | Examinations for the Diploma in Indian Music and |
| 11 | Th | Diploma in Geography. |
| 12 | F | |
| 13 | S | <i>Tamil New Year's Day</i> , (Holiday). |
| 14 | Sun | |
| 15 | M | F.L., B.L., and B.S.Sc. Part I, B.V.Sc. Prely., Inter. and Final Examinations. Last day for receiving attendance certificates for Diploma in Politics and Public Administration and Diploma in Statistics Examinations. Publication of results of Pre-Registration Exami- nation. |
| 16 | Tu | |
| 17 | W | |
| 18 | Th | <i>Maundy Thursday</i> (Sectional Holiday for Christians). |
| 19 | F | <i>Good Friday</i> (Holiday). |
| 20 | S | <i>Easter</i> (Holiday). |
| 21 | Sun | |
| 22 | M | Examination for the Diploma in Librarianship. Publication of results of First and Second M.B. & B.S. Examinations. |
| 23 | Tu | |
| 24 | W | |
| 25 | Th | |
| 26 | F | Andhra University inaugurated, 1926. |
| 27 | S | |
| 28 | Sun | |
| 29 | M | |
| 30 | Tu | |

MAY

| | | |
|----|------------|---|
| | W | University of Delhi incorporated, 1922. The Madras University Act, 1923, came into force. Publication of results of Final M.B. & B.S., M.D., M.S., B.Sc. (Pharmacy) Prely. and Final, and all Diplomas in Medicine and Surgery Examinations. |
| 2 | Th | |
| 3 | F | |
| 4 | S | |
| 5 | Sun | |
| 6 | M | Publication of results of B.S.Sc. Part I, F.E. & B.E. Examinations. |
| 7 | Tu | |
| 8 | W | |
| 9 | Th | |
| 10 | F | |
| 11 | S | |
| 12 | Sun | |
| 13 | M | Publication of results of B.A. (Hons.) Final and M.A., Degree Examinations. |
| 14 | Tu | |
| 15 | W | Last day for submission of Dissertation for the Examination for the Diploma in Geography. |
| 16 | Th | |
| 17 | F | |
| 18 | S | |
| 19 | Sun | |
| 20 | M | Publication of results of Matric., Intermediate, B.Sc. (Hons.) Part II (Main) and B.Sc. (Ag.), B.Sc. (Tech.), Examinations. |
| 21 | Tu | Madras University—Appointment of the First Vice-Chancellor under the Act of 1923. |
| 22 | W | |
| 23 | Th | |
| 24 | F | |
| 25 | S | |
| 26 | Sun | |
| 27 | M | Publication of results of B.A., B.A. (Hons.) Preliminary, B.Sc., B.Sc. (Hons.) Part I and Part II (Subsidiary), B.T., M.Ed., B.V.Sc. Prely., Inter. and Final, B.Com., Entrance Test, O.T., B.O.L. (Pass and Honours), Diploma in Indian Music, Diploma in Librarianship and Sangita Siromani Examinations. |
| 28 | Tu | |
| 29 | W | |
| 30 | Th | |
| 31 | F | |

JUNE

| | | |
|----|-----|---|
| 1 | S | Last day of registration for B.S.Sc. Part II Examination. |
| 2 | Sun | |
| 3 | M | |
| 4 | Tu | University of Nagpur incorporated, 1923. |
| 5 | W | |
| 6 | Th | |
| 7 | F | |
| 8 | S | |
| 9 | Sun | |
| 10 | M | Publication of results of F.L. and B.L. Examinations. |
| 11 | Tu | |
| 12 | W | |
| 13 | Th | |
| 14 | F | |
| 15 | S | Last day for receipt of applications for admission to the Diploma Courses conducted by the University. Publication of results of the Examination for the Diploma in Geography. |
| 16 | Sun | |
| 17 | M | |
| 18 | Tu | |
| 19 | W | |
| 20 | Th | |
| 21 | F | |
| 22 | S | |
| 23 | Sun | |
| 24 | M | |
| 25 | Tu | |
| 26 | W | |
| 27 | Th | |
| 28 | F | |
| 29 | S | |
| 30 | Sun | |

JULY

| | | |
|----|-----|---|
| M | | Agra University incorporated, 1927. Last day for receiving attendance certificates for the Examinations for the Diplomas in French and German. |
| Tu | | Last day for submission of thesis for the Examination for the Diploma in Economics. |
| W | | |
| Th | | |
| F | | Last day for receiving attendance certificates for B.S.Sc. Part II Examination. |
| | | Last day of registration for Intermediate, B.A., B.A. (Hons.) Preliminary, B.Sc., B.Sc. (Hons.) Part I, B.Sc. (Hons.) Part II (Subsidiary), B.T., B. Com., O.T. (Prely.)*, B.O.L. (Pass) Parts I and II and B.O.L (Hons.) Part I Examinations. |
| 6 | S | |
| 7 | Sun | |
| 8 | M | |
| 9 | Tu | |
| 10 | W | Last day for receipt of applications for Research Studentships and Fellowships. Examinations for the Diploma in Economics, Politics and Public Administration, French and Statistics. |
| 11 | Th | Examination for the Diploma in German. |
| 12 | F | |
| 13 | S | |
| 14 | Sun | |
| 15 | M | <i>Shab-e-Bharath</i> (Sectional Holiday for Muhammadans). Last day for registration for F.L., B.L., and for all the Diplomas in Medicine and Surgery Examinations. Last day for receiving attendance certificates for all the Diplomas in Medicine and Surgery Examinations. M.L. and B.S.Sc. Part II Examinations. |
| 16 | Tu | |
| 17 | W | |
| 18 | Th | University of Bombay incorporated, 1857. |
| 19 | F | |
| 20 | S | |
| 21 | Sun | |
| 22 | M | University of Mysore incorporated, 1916. |
| 23 | Tu | |
| 24 | W | |
| 25 | Th | |
| 26 | F | |
| 27 | S | |
| 28 | Sun | |
| 29 | M | |
| 30 | Tu | |
| 31 | W | Last day for receipt of applications for exemption from the production of attendance certificates for Entrance Tests and Oriental Title Examinations from private candidates and for O.T., Intermediate—Group D and B.O.L. (Pass & Honours) Examinations from <i>bona fide</i> teachers. |

Late applications for Examinations with an additional fee of Re. 1 will be accepted within five days after the prescribed date.

* Only to candidates who offer Group D under Part III.

AUGUST

| | | |
|----|-----|---|
| 1 | Th | Last day for receipt of reports from Colleges on the subjects and courses in which classes had not been opened for want of students. |
| 2 | F | The Utkal University incorporated, 1945. |
| 3 | S | |
| 4 | Sun | Last day for the submission of Return of Staff as on 1st August. |
| 5 | M | |
| 6 | Tu | |
| 7 | W | |
| 8 | Th | |
| 9 | F | Publication of results of B.S.Sc. (Part II) Examination. |
| 10 | S | |
| 11 | Sun | |
| 12 | M | |
| 13 | Tu | |
| 14 | W | <i>Assumption Day</i> (Sectional Holiday for Roman Catholics). Last day for receiving attendance certificates for Intermediate, B.A., B.A. (Hons.) Preliminary, B.Sc., B.Sc. (Hons.) Part I and Part II Subsidiary, B.T., B.Com., O.T. (Prely.) B.O.L. (Pass) Parts I and II, and B.O.L. (Honours), Part I Examinations. |
| 15 | Th | |
| 16 | F | |
| 17 | S | |
| 18 | Sun | |
| 19 | M | Publication of results of the Examinations for Diplomas in Economics, Pol. and Public Administration, Statistics, French and German. |
| 20 | Tu | <i>Sri Jayanti</i> (Holiday). |
| 21 | W | |
| 22 | Th | |
| 23 | F | |
| 24 | S | |
| 25 | Sun | <i>Ramzan</i> (Holiday). <i>Vinayaka Chaturthi</i> (Holiday). Last day for receipt of applications for registration for M.Litt., Ph D., M.Sc. and M.O.L. Degrees and for receipt of applications and theses for M.Litt., Ph.D., D.Litt., M.Sc., D.Sc., LL.D. and M.O.L. Degrees. |
| 26 | M | |
| 27 | Tu | |
| 28 | W | |
| 29 | Th | |
| 30 | F | |
| 31 | S | |

SEPTEMBER

| | | |
|----|-----|--|
| 1 | Sun | Intermediate, B.A., B.A. (Hons.) Preliminary, B.Sc., B.Sc. (Hons.) Part I., O.T. (Prely.), B.O.L. (Pass) Parts I & II and B.O.L. (Hons.) Part I, B.Com. and B.T. Examinations. *Last day for receiving applications for pass certificates of Inter. Examination of March 1946. Publication of results of M.L. Examination. |
| 2 | M | |
| 3 | Tu | |
| 4 | W | |
| 5 | Th | |
| 6 | F | |
| 7 | S | |
| 8 | Sun | <i>Onam.</i> The Indian Universities Act of 1904, came into force in the University of Madras, 1904. |
| 9 | M | Last day for receiving attendance certificates for F.L. and B.L. Examinations. |
| 10 | Tu | |
| 11 | W | |
| 12 | Th | |
| 13 | F | |
| 14 | S | Last day for registration for B.V.Sc. Prely., Inter. and Final Examinations. |
| 15 | Sun | |
| 16 | M | |
| 17 | Tu | |
| 18 | W | |
| 19 | Th | <i>Mahalaya Amavasai (Holiday).</i> F.L. and B.L. Examinations. |
| 20 | F | |
| 21 | S | |
| 22 | Sun | |
| 23 | M | |
| 24 | Tu | Last day for receipt of applications for exemption from <i>bona fide</i> teachers to appear for Matric., Inter., B.A. and M.A. Degree Examinations and from other private candidates for Matric. Examination, March, 1947. |
| 25 | W | |
| 26 | Th | |
| 27 | F | |
| 28 | S | |
| 29 | Sun | Last day for receipt of applications for exemption from <i>bona fide</i> teachers to appear for Matric., Inter., B.A. and M.A. Degree Examinations and from other private candidates for Matric. Examination, March, 1947. |
| 30 | M | |

Note.—The date of commencement of all examinations and time-tables in detail as finally fixed will be published in the *Gazette* in the preceding August.

* Applications for certificates for Examinations other than Intermediate should be made within a year from the date of publication of the results in the Fort St. George Gazette, failing which candidates should pay a late fee of Rs. 3/- each.

OCTOBER

| | | |
|----|-----|---|
| 1 | Tu | University of Patna incorporated, 1917. Last day for receiving attendance certificates for B.V.Sc. Prely., Inter. and Final Examinations. |
| 2 | W | |
| 3 | Th | |
| 4 | F | <i>Ayudha Pujah</i> (Holiday). |
| 5 | S | Publication of results of Inter., B.A., B.A. (Hons.) Prely., B.Sc., B.Sc. (Hons.) Part I and Part II Sub- sidiary, B.Com., B.T., O.T., Prely., B.O.L. Pass and B.O.L. Honours Part I Examinations. |
| 6 | Sun | |
| 7 | M | Osmania University incorporated, 1918. |
| 8 | Tu | Last day of registration for Pre-Registration, First, Second and Final M.B. & B.S. and B.Sc. (Pharmacy) Prely. and Final Examinations. |
| 9 | W | |
| 10 | Th | |
| 11 | F | |
| 12 | S | |
| 13 | Sun | |
| 14 | M | University of the Punjab incorporated, 1882. |
| 15 | Tu | B.V.Sc. Prely., Inter. and Final and Diplomas in Medicine & Surgery Examinations. Last day of registration for B.S.Sc. Part II Exami- nation. |
| 16 | W | |
| 17 | Th | |
| 18 | F | |
| 19 | S | |
| 20 | Sun | |
| 21 | M | |
| 22 | Tu | |
| 23 | W | <i>Deepavali</i> (Holiday). |
| 24 | Th | |
| 25 | F | |
| 26 | S | |
| 27 | Sun | |
| 28 | M | |
| 29 | Tu | The Madras University Amendment Act of 1929 came into force. |
| 30 | W | |
| 31 | Th | Last day for receipt of applications from institutions for recognition, affiliation or approval in any University course or courses from the following academic year. |

Late applications for Examinations with an additional fee of Re. 1
will be accepted within five days after the prescribed date.

NOVEMBER

| | | |
|----|-----|---|
| 1 | F | University of Travancore incorporated, 1937. |
| 2 | S | Last day for receipt of applications for scrutiny for purposes of appearing for the Matriculation Examination. |
| 3 | Sun | |
| 4 | M | |
| 5 | Tu | <i>Bakrid</i> (Holiday). |
| 6 | W | <i>Bakrid</i> (Sectional Holiday for Muhammadans). |
| 7 | Th | |
| 8 | F | |
| 9 | S | |
| 10 | Sun | |
| 11 | M | Publication of results of F.L., B.L., B.V.Sc. Prel., Inter. and Final Examinations. Last day for receiving attendance certificates for B.S.Sc. Part II Examination. |
| 12 | Tu | |
| 13 | W | |
| 14 | Th | |
| 15 | F | Last day of registration for Entrance Tests, O.T., B.O.L. (Pass and Honours) and Sangita Siromani Examinations. Publication of results of Examinations for the Diplomas in Medicine and Surgery. |
| 16 | S | University of Allahabad incorporated, 1887. |
| 17 | Sun | |
| 18 | M | |
| 19 | Tu | |
| 20 | W | Last day for receiving attendance certificates for First, Second and Final M. B. & B. S. Examinations. B.S.Sc. Part II Examination. |
| 21 | Th | |
| 22 | F | |
| 23 | S | |
| 24 | Sun | |
| 25 | M | |
| 26 | Tu | |
| 27 | W | |
| 28 | Th | |
| 29 | F | |
| 30 | S | |

Late applications for Examinations with an additional fee of Re. 1 will be accepted within five days after the prescribed date.

DECEMBER

| | | |
|----|-----|---|
| 1 | Sun | Publication in the <i>Gazette of India</i> in 1904, of the Chancellor's Declaration that the Body Corporate of the University of Madras had been constituted in accordance with the provisions of the Indian Universities Act, 1904. University of Rangoon and Muslim University, Aligarh incorporated, 1920. |
| 2 | M | <i>Muharram-7th day</i> (Sectional Holiday for Muhammadans). Last day of registration for B.S.Sc. (Part I) Examination. Last day for receiving attendance certificates for Pre-Registration and B.Sc. (Pharmacy) Preliminary and Final Examinations. First, Second and Final M.B. & B.S. Examinations. |
| 3 | Tu | |
| 4 | W | |
| 5 | Th | <i>Muharram</i> (Holiday). |
| 6 | F | |
| 7 | S | |
| 8 | Sun | |
| 9 | M | |
| 10 | Tu | Pre-Registration and B.Sc. (Pharmacy) Preliminary and Final Examinations. University of Lucknow incorporated, 1920. |
| 11 | W | |
| 12 | Th | |
| 13 | F | |
| 14 | S | |
| 15 | Sun | |
| 16 | M | Last day of registration for Matriculation, B.A. (Hons.) Final, B. Sc. (Hons.) Part II (Main subjects) and M.A. Examinations. |
| 17 | Tu | |
| 18 | W | |
| 19 | Th | |
| 20 | F | Publication of results of First, Second and Final M.B. & B.S. & B.S.Sc. Part II Examinations. |
| 21 | S | |
| 22 | Sun | |
| 23 | M | |
| 24 | Tu | |
| 25 | W | <i>Christmas Day</i> (Holiday.) |
| 26 | Th | <i>Christmas</i> (Boxing Day) (Holiday). |
| 27 | F | |
| 28 | S | |
| 29 | Sun | |
| 30 | M | |
| 31 | Tu | |

Late applications for Examinations with an additional fee of Re. 1 will be accepted within five days after the prescribed date.

*CHAPTER XXXIII.

Register of Matriculates.

Ordinances under Sections 19 (p), and 31 (a) of the Act.

Maintenance of Register of Matriculates—Enrolment. 1. The Syndicate shall maintain a Register of Matriculates in which the names of the following classes of persons shall be registered :—

- (a) Candidates who pass the Matriculation Examination of the University.
- (b) Holders of completed Secondary School Leaving or European School Leaving Certificates declared eligible, and holders of other Certificates accepted by the Syndicate as qualifying for admission to this University and candidates who have passed an examination accepted by the Syndicate as equivalent to the Matriculation Examination of this University, when admitted to a University course of study.
- (c) Holders of any degree, title, diploma, or certificate, other than those specified in (a) or (b), on first admission to a University course of study.
- (d) Persons, other than those specified in (a), (b) or (c), who with or without exemption from attendance certificates are permitted to appear for the first time for any examination of this University other than the Matriculation Examination.
- (e) Persons other than those specified in (a), (b), (c) or (d), who are candidates for admission to a Research Degree of this University.

* For Chapters I to XXXII *vide* Volume I, Part I, University Calendar, 1945-46.

2. The Register of Matriculates maintained under the preceding Ordinance shall set forth, in respect of each Matriculate, the name in full, the name of father or guardian, age, religion, language, school where educated, number and date of School-Leaving Certificate or European School-Leaving Certificate, Government issuing certificate, accepted examination, date of passing and number of certificate, authority issuing certificate, institution entered, date of admission, and University examination for which he has been permitted to appear, or Research Degree for which he is a candidate.

CHAPTER XXXIV.

Admission of Holders of S. S. L. C. and E. S. L. C. to University Courses of Study.

Ordinances framed under Section 19 (p) of the Act.

Secondary School-Leaving Certificates.

1. (a) Holders of completed Secondary School-Leaving Certificates may be admitted to University Courses of Study if they (a) shall have completed fourteen years and six months on the fifteenth day of July of the year in which they seek admission to Courses of Study, and (b) shall have secured at the Public Examination the marks prescribed below, and been declared eligible for admission by the Syndicate :--

- (i) In the case of Certificates issued under the authority of the Government of Madras :

In Group A not less than 40 marks in English and not less than 35 marks in the selected Second Language (except in the case of pupils who are exempted by the Director of Public Instruction from the study of the Second Language), and 130 marks in the following four subjects taken together : (1) Elementary Mathematics, (2) Elementary Science, (3) Outlines of History of England and India and Geography, and (4) one of the following subjects of Group C, *viz.*, Algebra and Geometry, Physics, Chemistry, Botany, Physiology, Geography, History of England and India, a Third Language, Indian Music, Book-keeping, Commercial Practice, Shorthand, Typewriting, Domestic Science, Agriculture, House-keeping and Nursing, Needlework, Dress-making and Embroidery, Lacework and Crochet, and Precise-writing and Indexing ; the marks being not less than 35 per cent. in each of any two of these four subjects and not less than 25 per cent. in each of the other two :

Provided that a certificate holder who secures in the aggregate not less than 210 marks in the six subjects, or not less than 175 marks if he has been exempted from the study of the Second Language under Group A, but fails in not more than two subjects by a deficiency of not more than one mark in each subject, shall be declared eligible for admission to University Courses of Study.

There shall be a Moderation Board appointed by the Syndicate to consider hard cases.

(ii) In the case of certificates issued under the authority of the Government of Cochin:—

In Group A not less than 40 marks in English and not less than 35 marks in the selected Second Language (except in the case of pupils who are exempted by the Director of Public Instruction from the study of the Second Language), and 130 marks in the following four subjects taken together : (1) Elementary Mathematics, (2) Elementary Science, (3) Outlines of History of England and India and Geography, and (4) one of the following subjects of Group C, *viz.*, Mathematics, Physics, Chemistry, Botany, Physiology, Geography, History of England, History of India, A Third Language, Deductive Logic, Indian Music, European Music, Shorthand, Typewriting, Agriculture, Elements of Mechanical Engineering, Domestic Science and Book-keeping ; the marks being not less than 35 per cent. in each of any two of these four subjects and not less than 25 per cent. in each of the other two:

Provided that a certificate holder who secures in the aggregate not less than 210 marks in the six subjects, or not less than 175 marks, if he has been exempted from the study of the Second Language under Group A, but fails in not more than two subjects by a deficiency of not more than one mark in each

subject, shall be declared eligible for admission to University Courses of Study.

There shall be a Moderation Board appointed by the Syndicate to consider hard cases.

(b) A candidate for admission to University Courses of Study who in any year fails to qualify by reason of deficiency in any subject or subjects in which he has undergone examination shall be required to appear again at the Public Examination in all the six (or five) subjects, and his eligibility shall be determined by the marks obtained by him at his last appearance.

(c) No holder of a certificate declared ineligible on a scrutiny shall be declared eligible on a rescrutiny according to Ordinances prescribed after the first scrutiny; provided, however, it shall be competent for the Syndicate to rescrutinize the Certificates of candidates who appeared for the S.S.L.C. Examination of 1925 or earlier, in accordance with the Rules in force at the time (1926), and the certificates of candidates who would have been eligible had the subjects of Shorthand and Typewriting been included in the list of subjects in the year in which they appeared for the examination under the S.S.L.C. Scheme of 1929 (*i.e.* from the S.S.L.C. Examination of 1932), on payment of the prescribed fee.

(d) A complete list of certificate holders declared eligible for admission to University Courses of Study shall be published in the *Fort St. George Gazette*, and a copy of the list shall be furnished to each Principal of a Constituent or an Affiliated College.

European School-Leaving Certificates.

2. (a) Candidates who have appeared for the Madras European High School Examination or the Bangalore European High School Examination shall be declared eligible for admission to University Courses of Study if they have secured a "pass" at the European High School Examination, Madras, or Bangalore, respectively.

Such persons shall have completed the age of fourteen years and six months on the fifteenth day of July of the

year in which they seek admission to University Courses of Study.

(b) A candidate for admission to University Courses of Study, who in any year fails to qualify for admission by reason of deficiency in any subject or subjects in which he has undergone examination, shall be required to appear again at the Public Examination in all subjects and secure a pass.

(c) A complete list of certificate holders declared eligible for admission to University Courses of Study shall be published in the *Port St. George Gazette* and a copy of the list shall be furnished to each Principal of a Constituent or an Affiliated College.

CHAPTER XXXV.

Admission to Courses of Study.

Ordinances under Sections 19 (p) and

31 (a) of the Act.

1. No person shall be permitted to enter upon a University Course of Study for the first time unless he gets his name registered in the Register of Matriculates maintained by the Syndicate. Every applicant for registration shall pay to the University such registration fee as may be prescribed.

Such persons shall have completed the age of fourteen years and six months on the fifteenth day of July of the year in which they seek admission to University Courses of Study.

Provided that it shall be competent for the Syndicate to waive a strict compliance with the above age limit in the case of a student who has been declared eligible in a year prior to the date of admission.

2. Admission to the course of study for the Intermediate Examination shall be granted only to the following classes of students:—

Conditions of admission to the Intermediate course.

(i) Persons who have passed the Matriculation Examination of this University.

(ii) Holders of completed Secondary School-Leaving Certificates and of completed European School-Leaving Certificates issued under the authority of the Government of Madras or Cochin, declared eligible for admission to a University Course of Study according to the rules and directions which the Syndicate may prescribe from time to time.

(iii) (a) Persons who have passed the Matriculation Examination or Entrance Examination of other Indian Universities and holders

of completed Secondary School-Leaving Certificates issued under the authority of Indian States other than Cochin who have been declared eligible for admission to a University course of study by the University in the State concerned, provided that recognition shall be granted in such cases on a reciprocal basis;

provided, however, that a pass in the First or Second Division only of the Higher Secondary Certificate Examination of Hyderabad shall be accepted.

- (b) Persons who have passed Secondary School-Leaving Certificate Examinations and European School-Leaving Certificate Examinations, in respect of which no Eligible List is issued by a University, and persons who have passed other Public Examinations, subject to such conditions as may be prescribed by the Syndicate from time to time.
- (iv) Holders of Oxford and Cambridge School Certificates, whose certificates satisfy the conditions laid down by the Syndicate.
- (v) Persons who have passed the *Entrance Test for Intermediate—Group D (i.e. Oriental Title Entrance Test and Matriculation English at one and the same appearance)* of the University of Madras; provided, however, that such candidates shall be eligible to take only Group D under Part III of the Intermediate Course.

*Note:—*Candidates who desire to be admitted to Intermediate—Group D should again sit for the whole examination (*viz.*, Oriental Title Entrance Test and Matriculation English) even though they might have passed the Oriental Title Entrance Test previously. Candidates taking the Entrance Test (Sanskrit) conducted by the Educational Department of the Government of Madras should pass that examination as well as Matriculation English in one and the same year.

3. The conditions under which students may be admitted to the courses of study for Oriental Titles shall be as follows:—

No candidate shall be admitted to the courses of study for any of the Oriental Titles unless he has passed:

A.

The Matriculation Examination of this University or an examination accepted by the Syndicate as equivalent thereto, *or*

B.

The Entrance Test prescribed below:—

(i) SIROMANI AND VIDVAN (*a*).

No person shall be admitted to the courses of study for the Siromani and Vidvan (*a*) Examinations unless he has passed the Entrance Test conducted by the Educational Department of the Government of Madras.

(ii) VIDVAN (*b*) AND (*d*), ADIB-I-FAZIL, MALPAN AND SOPPAR.

In the case of candidates for the Vidvan (*b*) and (*d*), Adib-i-Fazil, Malpan and Soppar Titles, the Entrance Test shall be in the selected language or main language (if there are two languages) and shall consist of the two papers set for the Intermediate Examination in Arts and Science in the corresponding language under Part II with the following modifications:—

(*a*) A few questions on Grammar shall be added in that part of the Intermediate (Part II) first paper intended for the candidates for the above Titles, and

(*b*) the question on Translation in the second paper for the Intermediate Examination shall be replaced by questions on Paraphrase or Composition.

Candidates obtaining not less than 40 per cent. of the total marks in the two papers taken together shall be certified to be eligible for admission to the respective courses.

A candidate who has passed in Part II of the Intermediate Examination in Arts and Science of this University shall, without any further Entrance Test, be admitted to the course, provided that the language selected as the main or the only language for the course is identical with the language in which he has passed Part II of the Intermediate Examination.

(iii) AFZAL-UL-ULAMA, MUNSHI-I-FAZIL, TABIB-I-KAMIL
AND AFZAL-UL-ATIBBA.

There shall be two written papers of 3 hours' duration each. Each paper shall carry 100 marks.

(1) Prose and Poetry Text-books.

(2) Diniyyat.

Candidates for Afzal-ul-Ulama and Afzal-ul-Atibba shall pass the Test in Arabic and candidates for Munshi-i-Fazil and Tabib-i-Kamil shall pass the Test in Persian.

In regard to the test in Arabic, the papers shall be set in the Arabic Language, and the candidates shall have the option to write their answers either in Arabic or in their own mother-tongue, *viz.*, Urdu, Tamil, Malayalam.

In regard to the test in Persian, the paper shall be set in Urdu, and the candidates are required to answer in Urdu only.

Candidates obtaining not less than 40 per cent. of the total marks in the two papers taken together shall be certified to be eligible for admission to the respective courses.

Provided, however, that in the case of candidates for the Oriental Tiles in Arabic, Persian and Urdu, the above Ordinance shall have effect only from the beginning of the academic year 1945-46.

It shall be competent for the Syndicate to recognize the Admission Tests of other Universities or examinations conducted by Indian States, as qualifying for admission to the Vidvan and Siromani Courses of this University.

**Conditions of
admission to
Sangita Siromani Course.**

4. Admission to the Sangita Siromani Course shall be open to:—

(1) Holders of completed Secondary School-Leaving Certificates with Indian Music as an optional subject, issued under the authority of the Government of Madras or Cochin, declared eligible for admission to a course of study in this University.

(2) Holders of completed Secondary School-Leaving Certificates without Indian Music as an optional subject, issued under the authority of the Government of Madras

or Cochin, declared eligible for admission to a course of study in this University or an examination of some other University or Body recognized by the Syndicate as equivalent thereto, and who have also passed the Technical Examination in Indian Music (Higher Grade) of the Government of Madras, or the Teachers' Certificate Examination in Indian Music of the Government of Madras.

(3) Candidates who have passed the Technical Examination in Indian Music (Higher Grade) of the Government of Madras or the Teachers' Certificate Examination in Indian Music of the Government of Madras and in English of the Matriculation Examination of the University of Madras.

5. For the purpose of admission to courses of study in this University, the Syndicate shall have the power to recognize Intermediate Examinations of other Indian Universities and of duly constituted Boards of Secondary and Intermediate Education, and Degree Examinations of other Indian Universities, as equivalent to the corresponding examinations of this University, subject to the following conditions:—

Recognition of Examinations of other Universities and Bodies.

- (1) That the normal length of the course prescribed leading to the examination sought to be recognized shall not be less than that for the corresponding examination of this University;
- (2) that, in cases of applications other than those specified in the Regulations governing admission of candidates holding the Diploma of L.M.P. to the M.B. & B.S. Course, the course of study for the examination sought to be recognized shall have been pursued in a University or in a college recognized by a University, provided that it shall be competent for the Syndicate in special cases to waive the above condition; and
- (3) that, in the case of admission to a professional course, the restriction of subjects, if any, imposed on candidates of this University shall be applicable to candidates who have passed examinations of other Universities or Bodies.

6. For the purpose of admission to courses of study in this University, examinations conducted by Bodies other than those mentioned in the above Ordinance may, in individual cases and on their merits, be recognized by the Syndicate as equivalent to the corresponding examinations of the University.

7. Notwithstanding anything that may be contained to the contrary in the Laws of the University, it shall be competent for the
War Emergency Law. Syndicate—

(1) with regard to students whose courses of studies, in countries involved in or affected by the War (in September 1939), have been interrupted, to dispense with a strict compliance with the Laws, as may be decided in each and every case in regard to admission to courses of studies or attendance on courses of this University or such other conditions as may be laid down in the Laws, and

*(2) in pursuance of the powers conferred upon it by Statute 2 (2-1) of Chapter XII—The Syndicate—Vol. I, Part I, Calendar, 1945-46, and Regulation 13 (2) of Chapter XI—Admission to Examinations, etc.,—Vol. I, Part II, Calendar, 1945-46, and with reference to members of His Majesty's Forces who come within the jurisdiction of this University in the sense of having been candidates declared eligible for admission to courses of study in this University or Matriculates or Intermediates or students for a Degree of this University, to award the concessions as noted hereunder to students who have rendered approved service in His Majesty's Forces:—

**Concessions
to students
who have
rendered
service in
His Majesty's
Forces.**

I. De facto students.

Concessions may be given to the following cases of students whose studies were interrupted due to joining His Majesty's Forces, provided the applications are submitted through the Principal of the College or the Head of Research Institute or Department in which the applicant was a student immediately prior to joining His Majesty's Forces.

* Subject to the approval of the Senate in October 1945.

Professional Degrees and B. Com. Degree.

(a) *Medical Degrees (M.B. & B.S., B.S.Sc., B.Sc. (Pharm.) B.E., B.V.Sc. and B.Sc. Ag.)*

Condonation in part of a course or courses of study in any particular subject may be given, each case being considered on its merits.

Note :—Owing to the fact that practical work involves a very important part of these courses, it is not possible to give any substantial reduction in the course as a whole.

(b) *B. T.*—Condonation of a portion of the period required for the course may be given. Each case shall be considered on its merits.

(c) *Law.*—Condonation of shortage of attendance for the course may be given for an examination or examinations, provided no student shall be permitted to appear for the B.L. Degree Examination prior to his passing the F.L. Examination. Each case shall be considered on its merits.

(d) *B. Com.*—Condonation of attendance from the course of study in whole or in part may be given. Each case shall be considered on its merits.

Individual cases may be considered, each on its merits, where prior to joining His Majesty's Service or while in His Majesty's Service a candidate has appeared for a Professional Examination (other than Medical Examination) or the B. Com. Degree Examination and has failed to gain a pass due to failure in gaining the minimum prescribed or where the minimum prescribed has been obtained by failing to secure the minimum required in any particular subject, with a view to awarding the degree without further examination.

Non-Professional Degrees.

(e) *M. Litt.*—Research work under supervision for the remaining period shall be waived and permission may be given to submit the thesis, provided the provisions of the Regulations regarding eligibility in other directions are complied with.

(f) *M. Sc.*—Ordinarily the period of training required under the Regulations shall be expected to be complied with, but condonation of short periods may be given.

(g) *Honours and Post-graduate Degrees in Arts.*—Condonation of shortage of periods of attendance may be given and permission granted to appear for the respective examinations, provided such applications are submitted through the Principal of the College in which the student formerly studied. Both the Preliminary and Final Examinations will require to be passed unless the candidate has already passed the Preliminary Examination. The condition in the Regulations for Honours Degree specifying a maximum period of four years within which the candidate must have qualified for the Degree shall not be insisted upon.

(h) *Honours and Post-graduate Degrees in Science.*—Condonation of shortage of periods of attendance may be given and students permitted to appear for the respective examinations provided that the application is submitted in each case with a statement from the Principal of the College that the applicant is fit to appear for the examination in the subject or subjects in which he was formerly a student. Both the Preliminary (or Part I) and Final Examinations will require to be passed unless the candidate has already passed the Preliminary (or Part I) Examination. The condition in the Regulations for Honours Degree specifying a maximum period of four years within which the candidate must have qualified for the Degree shall not be insisted upon.

(i) *B.A.—Arts or Science.*—It shall be open to any candidate who has pursued a course of study for the B.A. or any other Degree in a constituent or affiliated college of this University to appear for a Special Examination for the purpose of qualifying for a “War Degree” without further attendance in the course of study in a college.

Candidates who have been preparing for the B.A. or B.Sc. Degree Examination shall have the option of appearing for the usual Degree Examination without further attendance at a college, provided that in the case of those who took science subjects the Principal of the College certifies that the candidate is fit to appear.

(j) *B. Sc.*—It shall be open to any candidate who was formerly a student preparing for this Degree to appear without further attendance in the course of study in a college, provided that the Principal of the College certifies that the candidate is fit to appear for the examination.

Exemption will be given from Part I of the Degree Examination. All such candidates shall, however, have the option of appearing for the B.A. Special Examination in Science without further attendance in a college.

B.A. and B.Sc.—Military Service shall be considered as equivalent to a pass in Military Science—Certificate 'B'—and exemption given in respect of the papers in "(1) Shakespeare" and "(2) Modern Poetry" for B.A., and in respect of one subsidiary subject for B.Sc. in accordance with the Regulations.

Further, exemption may be given from Part I or Part II of the B.A. Degree Examination provided the candidate has already passed in one of these Parts.

A candidate who has passed in any two Parts of the B.A. Degree Examination may be given, should he so desire, a B.A. War Degree.

A candidate who was studying for the B.Sc. Degree may be given the B.A. War Degree provided he has passed the Main and one Subsidiary subject or the Main subject and Part I. He may, however, be given the B.Sc. Degree if he has passed the Main and one Subsidiary subject.

It shall, however, be open to the candidate, if he so desires, to proceed to the ordinary Degree Examination.

(*k*) *Intermediate*.—Condonation of attendance from the course of study in whole or in part may be given. Each case shall be considered on its merits.

Military Service may be considered as equivalent to a pass in Military Science—Certificate 'A'—and exemption given in respect of one optional subject under Part III of the Intermediate Examination.

Further, exemption shall be given from Part II or Part III of the examination provided the candidate has already passed in one of these Parts.

(*l*) *B.O.L.*—Condonation of attendance from the course of study in whole or in part may be given. Each case shall be considered on its merits.

Each application for award of the Degree without being required to comply with the Regulations fully shall be considered on its merits.

*Note:—*In the cases enumerated above [(a) to (l)] all examinations will be the usual examinations held by the University in the respective Faculties and Degrees, except with reference to the Special Examination for B.A. which will be defined separately.

II. Candidates who were not de facto students.

It shall be open to Secondary School-Leaving Certificate holders declared eligible for admission to a course of study in this University, Matriculates and Intermediates of this University who were not students immediately prior to joining His Majesty's Forces to appear for (1) the next higher examination in Humanities without further study in a college, and (2) for the next higher examination involving science subjects provided the Principal of the College certifies that the applicant is fit to appear for the examination in the case of the Intermediate or on the production of certificate of attendance for one year in a constituent or affiliated college of this University in the case of a Degree Examination. Intermediates of this University shall, however, have the option of appearing for the Special War Degree provided that their pass in the Intermediate Examination was obtained not later than two years prior to the date of joining His Majesty's Forces.

CHAPTER XXXVI.

Conduct of Examinations.

Ordinances under Section 31 (h) of the Act.

Place of Examinations 1. (a) All examinations shall be held in Madras and in such other places as may be fixed by the Syndicate. A list of the centres at which examinations will be held shall ordinarily be published annually in the *Gazette* in the preceding April.

(b) When there are more centres than one for a written examination question papers shall be given out to candidates on the same day and at the same hour in every centre.

Gazetted holidays 2. Gazetted holidays shall be considered *dies non* for purposes of the University Examinations, but the Syndicate may, for special reasons, decide to hold examinations on such holidays.
dies non.

3. The following examinations shall be held twice in the academic year :—

- Examinations held twice in a year.**
1. Intermediate.
 2. B.A. Degree.
 3. B.A. (Honours) Preliminary.
 4. B.Sc. Degree.
 5. B.Sc. (Honours)—Part I and Part II—Subsidiary Subjects only.
 6. B.T.
 7. Law—F.L. and B.L.
 8. Pre-Registration Examination (Medical).
 9. M.B. & B.S. Examinations.
 10. B.S.Sc.—Parts I and II.
 11. Diploma in Gynaecology and Obstetrics.
 12. Diploma in Venereology.
 13. Diploma in Dermatology.
 14. Diploma in Ophthalmology.
 15. Diploma in Oto-Rhino-Laryngology.

16. Diploma in Radiology.
17. Diploma in Orthopaedics.
18. B.Sc. (Pharmacy).
19. B.V.Sc. Degree.
20. B.Com. Degree.
21. †Oriental Titles.
22. †B.O.L. (Pass).
23. B.O.L. (Honours) Part I only.
24. B.Mus.—Part I only.

The other examinations shall be held once a year.

4. The papers set in any subject shall be such as a candidate of decided ability well prepared in the subject can reasonably be expected to answer within the time allotted.

Standard of Question papers.

5. No question shall be put at any University examination calling for a declaration of religious belief, or profession or political views on the part of the candidate, and no answer given by any candidate shall be objected to on the ground of its giving expression to any particular form of religious belief, profession or political views.

Nature of Questions.

6. All examinations, except practical and *viva voce* examinations, shall be conducted by means of printed, typed or written papers to be set and answered, except in the case of Indian languages, and languages for the Oriental Titles Examinations, in English unless otherwise stated therein.

Conduct of Examinations.

It shall be competent for the Syndicate to permit candidates to appear for and answer the paper or papers in a Group or a subject or subjects in a Group under Part III of the Intermediate Examination in an Indian Language, provided one year's notice had been given by the college concerned.

† Examinations in Oriental Titles (Intermediate—Group D) and B.O.L. (Pass) Part II will be held in September only in such languages in which colleges are affiliated and candidates are appearing therefrom.

7. Examination Boards shall, whenever there are candidates, be appointed annually by the Syndicate for the following subjects or groups of subjects—

| | | |
|----------------------------|---------------------------------|--------------------------------------|
| Examination Boards. | i. English. | xxiii. Zoology including Physiology. |
| | ii. Greek and Latin. | xxiv. Geology. |
| | iii. French. | xxv. Home Science. |
| | iv. German. | xxvi. Anthropology. |
| | v. Sanskrit. | xxvii. Philosophy. |
| | vi. Marathi. | xxviii. History and Politics. |
| | vii. Hindi. | xxix. Economics. |
| | viii. Oriya. | xxx. Geography. |
| | ix. Bengali. | xxxi. Teaching. |
| | x. Burmese. | xxxii. Law. |
| | xi. Sinhalese. | xxxiii. Medicine. |
| | xii. Hebrew and Syriac. | xxxiv. Sanitary Science. |
| | xiii. Arabic, Persian and Urdu. | xxxv. Pharmacy. |
| | xiv. Tamil. | xxxvi. Engineering. |
| | xv. Telugu. | xxxvii. Agriculture. |
| | xvi. Kannada. | xxxviii. Veterinary Science. |
| | xvii. Malayalam. | xxxix. Technology. |
| | xviii. Mathematics. | xl. Commerce. |
| | xix. Statistics. | xli. Indian Music. |
| | xx. Physics. | xlii. Western Music. |
| | xxi. Chemistry. | xliii. Drawing and Architecture. |
| | xxii. Botany. | |

The Syndicate may appoint separate Boards of Question Paper-Setters and Boards to conduct examinations, as it deems fit. Joint or separate Boards may be appointed to conduct different examinations.

8. The Syndicate shall appoint a Chairman for each Board, who shall at the conclusion of every examination forward to the Syndicate a report on the manner in which the examination has been conducted.

9. The Syndicate may appoint special Boards of Examiners to supervise the Matriculation Examination and the Intermediate Examination in Arts and Science.

10. The Examination Boards shall report to the Syndicate the results of all examinations conducted or supervised by them.

11. The Syndicate shall have power to approve and publish the results.

12. In the examinations for Degrees in Law, Medicine, Engineering, Agriculture and Commerce and for the final part of the Degrees of the B.A. (Honours) and B.Sc. (Honours), the names of all successful candidates shall be published in the order of proficiency. In the case of the other examinations, the names of candidates who are placed in the First Class shall be published in the order of proficiency; in the case of the B.A. and B.Sc. Degree Examinations, the names of candidates who are placed in the Second Class shall also be published in the order of proficiency. The names of other successful candidates shall be published in the order in which they were registered for the examination.

Manner of publication of results of successful candidates.

13. A certificate signed by the Registrar shall be given to each successful candidate at an examination other than an examination for a degree, title or diploma. The certificate shall set forth the date of the examination, the subject in which the candidate was examined, the class in which he was placed, and the subjects, if any, in which he gained distinction in accordance with the Regulations.

Pass Certificates.

14. A Diploma under the seal of the University and signed by the Vice-Chancellor shall be presented at a Convocation to each successful candidate at an examination for a degree, title or diploma. The diploma shall set forth the date of the examination, the subjects in which the candidate was examined, the class in which he was placed, and the subjects, if any, in which he gained distinction in accordance with the Regulations.

Diplomas.

CHAPTER XXXVII.

Fees.

| <i>Statute.</i> Examination Fees. | 1. Candidates for Examinations, Diplomas and Degrees shall pay the fol- lowing fees:— | Rs. |
|---|---|-----|
| <i>(a) Examination Fees.—</i> | | |
| Matriculation Examination | ... | 15 |
| English Part only | ... | 5 |
| Intermediate Examination— | | |
| Whole Examination | ... | 25 |
| Part I only | ... | 10 |
| Part II only | ... | 8 |
| Part III only | ... | 18 |
| B.A. Degree Examination— | | |
| First appearance— | | |
| Whole Examination or any Part or Parts | ... | 48 |
| Subsequent appearance— | | |
| Whole Examination | ... | 48 |
| Part I | ... | 20 |
| Part II | ... | 10 |
| Part III | ... | 24 |
| B.A. (Honours) Degree Examination— | | |
| Preliminary | ... | 15 |
| Final | ... | 60 |
| M.A. Degree Examination | ... | 60 |
| Degree of Master of Letters (M. Litt.) | ... | 100 |
| Degree of Master of Science (M. Sc.) | ... | 100 |
| Degree of Doctor of Philosophy (Ph. D.) | ... | 150 |
| Degree of Doctor of Letters (D. Litt.) | ... | 200 |
| Degree of Doctor of Science (D. Sc.) | ... | 200 |
| B.Sc. Degree Examination— | | |
| Part I | ... | 15 |
| Part II | ... | 36 |

| | Rs. |
|---|---------|
| B.Sc. (Honours) Degree Examination— | |
| Part I | ... 15 |
| Part II— | |
| Science Subjects. (Physics, Chemistry, or any Natural Science subject) | |
| Subsidiary subject or subjects | ... 30 |
| Main subject | ... 30 |
| Any other Branch (<i>i.e.</i> Mathematics) | ... 60 |
| B.Sc. (Ag.) Degree Examination— | |
| First Examination | ... 20 |
| Second Examination | ... 30 |
| Final Examination | ... 30 |
| One subject only for any Examination | ... 15 |
| B.V.Sc. Degree Examination— | |
| Preliminary Examination | ... 20 |
| Intermediate Examination—Part I | ... 20 |
| Do. do. Part II | ... 20 |
| Final Examination | ... 40 |
| One subject only for any Examination | ... 15 |
| B.Sc. (Tech.) Degree Examination— | |
| Whole Examination | ... 125 |
| Part I only | ... 50 |
| Part II only | ... 75 |
| B.T. Degree Examination | ... 20 |
| B.T. Degree Examination—Practical Test for deferred candidates | ... 10 |
| M.Ed. Degree Examination | .. 40 |
| B.L. Degree Examination— | |
| F.L. Examination | .. 40 |
| For each division | .. 25 |
| B.L. Degree Examination | .. 50 |
| For each division— | |
| (i) Hindu Law and Muhammadan Law. | 20 |
| (ii) Property and Land Tenures | .. 25 |
| (iii) Criminal Law and Evidence | .. 25 |
| M.L. Degree Examination | .. 100 |
| LL.D. Degree | .. 200 |
| Pre-Registration Examination (for the M.B. & B.S. Degree Course)— | |
| First appearance—either Whole or in Part | .. 30 |
| Subsequent appearance—Each subject | .. 15 |

| | Rs. |
|--|---------|
| M.B. & B.S. Degree Examination— | |
| First M.B. & B.S. Examination— | |
| Whole Examination | ... 45 |
| Part I only | ... 15 |
| Part II only | ... 35 |
| Separate subjects after first appearance— | |
| Organic Chemistry | ... 15 |
| Anatomy or Physiology | ... 20 |
| Second M.B. & B.S. Examination— | |
| Whole Examination | ... 60 |
| Part I only | ... 20 |
| Part II only | ... 50 |
| Separate subjects after first appearance— | |
| Pharmacology (Part I) | ... 20 |
| Ophthalmology (Part II) | ... 15 |
| Hygiene and Preventive Medicine or General Pathology with Bacteriology (Part II) | ... 20 |
| Final M.B. & B.S. Degree Examination— | |
| First appearance— | |
| Whole Examination | ... 60 |
| Part I only—Forensic Medicine | ... 15 |
| Part II only | ... 50 |
| Subsequent appearance— | |
| Medicine or Surgery | ... 20 |
| Obstetrics and Gynaecology | ... 15 |
| M.D. or M.S. Degree Examination | ... 150 |
| Diploma in Gynaecology and Obstetrics | ... 50 |
| Diploma in Venereology | ... 50 |
| Diploma in Dermatology | ... 50 |
| Diploma in Ophthalmology | ... 50 |
| Diploma in Oto-Rhino-Laryngology | ... 50 |
| Diploma in Radiology | ... 50 |
| Diploma in Orthopaedics | ... 50 |
| B.S.Sc. Degree Examination— | |
| Part I | ... 50 |
| Part II | ... 75 |

| | Rs. |
|---|--------|
| B.Sc. (Pharmacy)— | |
| Preliminary Examination— | |
| First appearance | ... 30 |
| Subsequent appearance—Each subject | ... 10 |
| Final Examination— | |
| First appearance | ... 45 |
| Subsequent appearance—Each subject | ... 15 |
| B.E. Degree Examination (Old Regulations)— | |
| F.E. Examination | ... 30 |
| B.E. Degree Examination | ... 50 |
| B. E. Degree Examination (<i>Revised</i>)— | |
| F. E. Examination— | |
| Part I | ... 20 |
| Any Group | ... 12 |
| Part II | ... 20 |
| Group A or B | ... 12 |
| Group C | ... 5 |
| B. E. Degree Examination— | |
| Part I | ... 20 |
| Any Group | ... 12 |
| Part II | ... 40 |
| Any Group | ... 15 |
| B. Com. Degree Examination— | |
| Part I | ... 20 |
| Part II | ... 7 |
| Part III | ... 25 |
| Oriental Titles Examination (Old Regulations)— | |
| Entrance Test to Vidvan Course (Dravidian Main) | ... 3 |
| Preliminary Examination | ... 12 |
| Final Examination | ... 12 |
| Certificate of Proficiency Examination | ... 10 |
| Degree of Bachelor of Oriental Learning Examination (B.O.L.)— | |
| Whole Examination | ... 48 |
| Part I | ... 20 |
| Part II | ... 10 |
| Part III (Whole Part) | ... 20 |
| Selected Subject I | ... 10 |
| Selected Subject II | ... 10 |
| Degree of Master of Oriental Learning (M.O.L.) | ... 50 |

| | Rs. |
|--|-----|
| Oriental Titles Examination (Revised)— | |
| Entrance Test to the following Oriental Titles— | |
| Vidvan, Adib-i-Fazil, Malpan and Soppar and Titles in Arabic and Persian ... | 8 |
| Entrance Test for Intermediate—Group D ... | 15 |
| Oriental Titles— | |
| Preliminary Examination ... | 18 |
| Final Examination ... | 20 |
| B.O.L. (Pass) Degree Examination (Revised)— | |
| Part I ... | 15 |
| Part II ... | 25 |
| B.O.L. (Honours) Degree Examination— | |
| Preliminary ... | 15 |
| Final ... | 60 |
| Sangita Siromani Title— | |
| <i>Preliminary—</i> | |
| Whole Examination ... | 25 |
| Parts I and III for candidates under Regulation 9 of Chapter LXXIII ... | 25 |
| Part II only ... | 8 |
| <i>Final—</i> | |
| Whole Examination ... | 30 |
| Bachelor of Music (B.Mus.) Degree Examination— | |
| Whole Examination ... | 48 |
| Part I only ... | 20 |
| Part II only ... | 20 |
| Part III only ... | 25 |
| Examination for the Diploma in Economics ... | 30 |
| Examination for the Diploma in Politics and Public Administration ... | 30 |
| Examination for the Diploma in Statistics ... | 30 |
| Examination for the Diploma in Modern Euro- pean Languages (French or German) ... | 12 |

| | Rs. |
|--|--------|
| Examination for the Diploma in Librarianship— | |
| First appearance— | |
| Whole Examination or any Division or Divisions | ... 20 |
| Subsequent appearance— | |
| Whole Examination | ... 20 |
| Any Division | ... 8 |
| Examination for the Diploma in Geography | ... 30 |
| Subsequent appearance—Dissertation only | ... 15 |
| Examination for the Diploma in Indian Music | ... 24 |
| Subsequent appearance—Practical Test in a subject or subjects (each subject) | ... 12 |
| (b) <i>Degree or Diploma Fee—</i> | |
| Diploma fee (for taking Degree at a Convocation in person) | ... 3 |
| Degree <i>in absentia</i> fee (including Diploma fee) | ... 13 |
| M. A. Degree fee | ... 25 |
| Diploma fee (for Certificates and Diplomas given at a Special Meeting of the Senate) other than for Degrees taken at a Convocation | ... 2 |
| Diploma <i>in absentia</i> fee (for Certificates and Diplomas given at a Special Meeting of the Senate) | ... 3 |

provided that the above fees shall not be levied in the case of Honorary Degrees.

Statute.

Fees from Research Students and Fellows permitted to work in the Depts. of the University.

2. Research Students and Fellows (stipendiary and non-stipendiary) permitted to study in the Departments of the University or under any Teacher of the University shall pay the following fees:—

Persons working in Arts Departments—either Rs. 30 per annum or Rs. 10 per term (thrice in a year).

Persons working in Science Departments—either Rs. 45 per annum or Rs. 15 per term (thrice in a year).

Statute.
Recognition or Affiliation fee. 3. Colleges applying for recognition or affiliation shall pay the following fees:—

First recognition or affiliation. At the rate of Rs. 150 for each member of the Inspection Commission appointed.

Further recognition or affiliation. At the rate of Rs. 100 for each member of the Inspection Commission appointed.

Statute.
Registration of Graduates fee. 4. Graduates applying for Registration in the List of Registered Graduates shall pay a fee of Rs. 5.

Ordinance.

Fees for Matriculation, Diploma Courses, etc.

5. *Other Fees—*

| | Rs. |
|--|--------------|
| I. (1) For registration as a Matriculate ... | 2 |
| (2) For registration as a candidate for the M.Litt., M.Sc. or Ph.D. Degree ... | 50 |
| (3) (a) For registration as a student for any of the Diploma Courses in Medicine or Surgery (inclusive of attending lectures under (b) and (c) <i>infra</i>): | |
| (b) For attending the course of Post-Graduate Lectures in Medicine or Surgery arranged by the Post-Graduate Council of Medical Education: | 100 |
| and/or | |
| (c) For attending Refresher Courses arranged by the Post-Graduate Council of Medical Education. | |
| (4) For applying for admission to the B.Sc. (Tech.) Degree Course ... | |
| (5) For undergoing the B.Sc. (Tech.) Degree Course ... | 200 |
| | per year or |
| | 75 per term. |
| (6) For undergoing the Diploma Course in Economics (two years course—Rs. 75) ... | 37½ |
| | per year. |

| | Rs. |
|---|-----|
| (7) For undergoing the Diploma Course in Economics (one year course) ... | 75 |
| (8) For undergoing the course of lectures in one or more subjects for the Diploma Course in Economics (for each subject). | 15 |
| (9) For undergoing the Diploma Course in Politics and Public Administration (two years course—Rs. 75) ... | 37½ |
| per year. | |
| (10) For undergoing the course of lectures in one or more subjects for the Diploma Course in Politics and Public Administration (for each subject) ... | 15 |
| (11) For undergoing the Diploma Course in Statistics (two years course—Rs. 75) ... | 37½ |
| per year. | |
| (12) For undergoing the course of lectures in one or more subjects for the Diploma Course in Statistics (for each subject). | 15 |
| (13) For undergoing the Diploma Course in German (one year course) ... | 45 |
| provided however, it shall be competent for the Syndicate to admit certain classes of applicants under the conditions enumerated in the proviso to Regulation 45 of Chapter LXXIV, at a concession rate of Rs. 30 per candidate. | |
| (14) For undergoing the Diploma Course in French (one year course) ... | 45 |
| provided, however, it shall be competent for the Syndicate to admit certain classes of applicants under the conditions enumerated in the proviso to Regulation 45 of Chapter LXXIV, at a concession rate of Rs. 30 per candidate. | |
| (15) For undergoing the Diploma Course in Librarianship (one year course) ... | 60 |

| | Rs. |
|---|--|
| (16) For undergoing the Diploma Course in Geography (one year course) ... | 75 |
| (17) For Field Work by students of the Diploma Course in Geography ... | 25 |
| (18) For undergoing the lectures in one or more subjects for the Diploma Course in Geography (for each subject) ... | 15 |
| (19) For undergoing the Diploma Course in Indian Music (two years course—Rs. 60) ... | 30 |
| | per year. |
| (20) For undergoing the lectures in one or more subjects for the Diploma Course in Indian Music (for each subject) ... | 15 |
| <i>Ordinance.</i> | II. (1) (a) For considering |
| Other fees for getting marks, certificates, etc. | application for exemption from the production of attendance certificates ... |
| | 10 |
| <p>Provided, however, it shall be competent for the Syndicate to waive the payment of the above fee for exemption in cases where the candidates could not produce the prescribed certificates of attendance owing to the reduction of the college to a lower grade (voluntary or otherwise), or the closing down of the college, or the college not having been granted the necessary recognition or affiliation in time.</p> | |
| | (b) For scrutiny of applications under Ordinance 1 (b), (c) and (d) of Chapter XLI ... |
| | 5 |
| (2) For considering application for recognition of an examination of another University or examination conducted by other Bodies outside the jurisdiction of the University ... | 5 |
| (3) For considering application for combination of attendances earned by a candidate in two colleges ... | 5 |

| | Rs. |
|---|-----|
| (4) For scrutiny of Secondary School-Leaving Certificates of candidates who sat for the examination prior to 1926 and of those who sat for the examination within the Madras Presidency and outside the University area ... | 3 |
| (5) For scrutiny of Madras European School-Leaving Certificates of candidates who sat for the examination prior to 1927, and of those who sat for the examination outside the University area after 1927 ... | 3 |
| (6) For scrutiny of Bangalore European High School Certificates of candidates who sat for the examination prior to 1933 ... | 3 |
| (7) For considering application for recognition of change of name ... | 10 |
| (8) For endorsing in the University records in regard to the change in the date of birth, whether due to clerical error or otherwise ... | 10 |
| (9) For obtaining a duplicate Diploma or Certificate ... | 5 |
| (10) For obtaining a Provisional Certificate ... | 3 |
| (11) For application for Intermediate Certificate received by the Registrar after the prescribed date ... | 3 |
| (12) For application for Certificates and Diplomas (other than Intermediate) received by the Registrar one year after the examination ... | 3 |
| (13) For application for Certificates and Diplomas received by the Registrar five years after the examination ... | 10 |
| (14) For obtaining a Migration Certificate ... | 5 |

*Dates will be notified in the *Fort St. George Gazette* when publishing the results.

Rs.

(15) For issue of a certified extract from the Registers or Records of the University except Convocation Reports ...

(16) For issue of a certified extract from Convocation Reports ...

(17) (a) For furnishing to a candidate a statement of marks obtained by him at the Intermediate Examination on each occasion (March 1945 *et seq*)

(Note:—This fee of Re. 1/- should be paid by all candidates appearing for the Intermediate Examination along with their examination fees.)

(b) For furnishing to a candidate a statement of marks obtained by him at the B.A. Degree Examination, for each Part ...

(c) For furnishing to a candidate a statement of marks obtained by him at any examination other than the Intermediate and the B.A. Degree Examinations. ...

(d) For furnishing to a candidate detailed marks obtained by him at each examination—for details of each subject comprising a minimum (additional fee) ...

(e) For furnishing to a candidate a statement of marks obtained by him at the Intermediate Examination for each appearance (whether for a Part or Parts or for the Whole Examination) at examinations prior to March 1945 or for furnishing duplicate statement of marks for each appearance ...

(18) For checking the addition of the marks in each paper of a candidate for any University Examination (for each paper) ...

| | Rs. |
|---|--|
| (19) (a) For supplying to Principals of Colleges marks of all the successful candidates at the Matriculation and Intermediate Examinations (for each examination of the year) ... | 20 |
| (b) For supplying to Principals of Colleges marks of all the candidates (passed and failed) from a particular College for the B. A., B.Sc., B.A. (Hons.), B.Sc. (Hons.), F. L., B. L., M. B. & B. S., B. T., F. E., B. E., B.Sc. Ag., or any other examination, for fifty candidates or less. | Annas 8 per candidate subject to a maximum fee of Rs. 10 for an examination, for fifty candidates or less. |
| (c) For supplying to Principals of Colleges detailed marks in each subject comprising a minimum (for each candidate) ... | 1 |

CHAPTER XXXVIII.

Dates for Payment of Examination Fees and Submission of Certificates, Dates of Commencement of Examinations, and Dates of Publication of Results of Examinations.

Ordinance.
**Dates of
Examinations,
and dates of
submission of
applications
and attendance
certificates,
and dates of
publication of
results.**

The latest dates on which fees for examinations shall be payable, and applications for admission thereto and certificates to be produced by candidates are to be submitted to the Registrar in the forms prescribed, the dates on which examinations shall begin, and the dates on which the results of the examinations shall be published at the University Buildings shall be:—

| Examinations. | Last date for receipt of applications, together with the receipt of payment of fees, in the Registrar's Office. | Last date for submitting certificates. |
|--|---|---|
| Arts and Science— Matriculation ... | December 15 ... | March 9 ... |
| Intermediate ... | { January 10 ... or July 5 ... | { March 9 ... or August 15 ... |
| *B.A. Part I ... | { January 10 ... or July 5 ... | { March 9 ... or August 15 ... |
| Part II ... | Do. ... | Do. ... |
| Part III ... | Do. ... | Do. ... |
| B.A. (Hons.) Preliminary { | { January 10 ... or July 5 ... | { March 9 ... or August 15 ... |
| B.A. (Hons.) Final ... | December 15 ... | March 9 ... |
| M.A. ... | Do. ... | Do. ... |
| *B.Sc. ... | { January 10 ... or July 5 ... | { March 9 ... or August 15 ... |
| Part I ... | Do. ... | Do. ... |
| Part II ... | Do. ... | Do. ... |
| B.Sc. (Hons.)— Part I ... | { January 10 ... or July 5 ... | { March 9 ... or August 15 ... |
| Part II (Main) | December 15 ... | March 9 ... |
| *Part II (Subsidiary) { | { January 10 ... or July 5 ... | { March 9 ... or August 15 ... |
| M.Sc. or M. Litt. ... | { January 31 ... or August 31 ... | { |
| Ph.D. | { January 31 ... or August 31 ... | { |

*Note:—Particulars regarding the dates of commencement of examination and Part II—Subsidiary Subjects (only) of the B.Sc. (Honours) Degree published.

| Date of commencement of examinations. | Last date of publication of results. |
|--|--------------------------------------|
| March 20 | ... 3rd Monday in May. |
| March 20 | ... 3rd Monday in May |
| or | or |
| September 1 | ... October 5 |
| March 20 | ... 4th Monday in May |
| or | or |
| September 1 | ... October 5 |
| Immediately after the examination in Part I. | Do. |
| Immediately after the examination in Part II. | Do. |
| March 20 | ... 4th Monday in May |
| or | or |
| September 1 | ... October 5 |
| March 20 | ... 2nd Monday in May |
| Do. | ... Do. |
| March 20 | ... 4th Monday in May |
| or | or |
| September 1 | ... October 5 |
| Immediately after the examination in Part I. | Do. |
| March 20 | ... 4th Monday in May |
| or | or |
| September 1 | ... October 5 |
| March 20 | ... 3rd Monday in May. |
| Same days as for B.A. and B.Sc. Subsidiary Subjects. | 4th Monday in May or October 5 |

ations in Parts II and III of the B.A. Degree, Part II of the B.Sc. Degree, will be notified in the *Port St. George Gazette* when the time-tables are

| Examinations. | Last date for receipt of applications, together with the receipt of payment of fees, in the Registrar's Office. | | Last date for submitting certificates. |
|---|--|-------------------------------|--|
| D. Litt. or D. Sc. ... | { | January 31 or August 31 | |
| Law— F.L. and B.L. ... | | January 15 or July 15 | April 1 or September 10 |
| M.L. ... | ... | January 15 | |
| LL.D. ... | ... | January 31 or August 31 | |
| Medicine— Pre-Registration Examination. | | October 8 or January 15 | December 1 or March 20 |
| M.B. & B.S.— First and Second Ex- aminations. | | Do. | November 20 or March 20 |
| Final Examination ... | | Do. | Do. |
| M.D. or M.S. ... | | January 15 | January 15 |
| Diploma in Gynaecology and Obstetrics. | { | January 15 or July 15 | January 15 or July 15 |
| Diploma in Venereology. | | Do. | Do. |
| Diploma in Dermatology. | | Do. | Do. |
| Diploma in Ophthalmology. | | Do. | Do. |
| Diploma in Oto-Rhino- Laryngology. | | Do. | Do. |
| Diploma in Radiology. | | Do. | Do. |
| Diploma in Orthopaedics. | | Do. | Do. |
| B.S.Sc.— Part I | | December 1 or March 1 | January 5 or April 5 |
| Part II ... | { | June 1 or October 15 | July 5 or November 10 |

| Date of commencement of examinations. | Last date of publication of results. |
|--|---|
| April 15 or September 25 | 2nd Monday in June or 2nd Monday in November. |
| July 15 | 1st Monday in September. |
| December 10 or April 1 | January 5 or 3rd Monday in April. |
| December 1 or April 1 | December 20 or April 20. December 20 |
| Do. | or May 1. |
| April 1 | May 1. |
| April 1 or October 15 | May 1 or November 15. |
| Do. | Do. |
| Do. | Do. |
| Do. | Do. |
| Do. | Do. |
| Do. | Do. |
| Do. | Do. |
| Do. | Do. |
| January 15 or April 15 | 1st Monday in February or 1st Monday in May. |
| July 15 or November 20 | 2nd Monday in August or December 20. |

| Examinations. | Last date for receipt of applications, together with the receipt of payment of fees, in the Registrar's Office. | | Last date for submitting certificates. | |
|---|---|-----|--|-----|
| B.Sc. (Pharmacy)— | | | | |
| Preliminary ... { | October 8 | ... | December 1 | ... |
| | or | ... | or | ... |
| | January 15 | ... | March 20 | ... |
| Final ... { | January 15 | ... | March 20 | ... |
| | or | ... | or | ... |
| | October 8 | ... | December 1 | ... |
| Engineering— | | | | |
| F. E. and B. E. (Old Regns.) | January 15 | ... | March 9 | ... |
| F. E. (Revised Regulations)— | | | | |
| Part I ... | January 15 | ... | March 9 | ... |
| Part II ... | Do. | ... | Do. | ... |
| B. E. Degree (Revised Regulations)— | | | | |
| Part I ... | January 15 | ... | March 9 | ... |
| Part II ... | Do. | ... | Do. | ... |
| Teaching— | | | | |
| B. T. { | January 15 | ... | March 19 | ... |
| | or | ... | or | ... |
| | July 5 | ... | August 15 | ... |
| *Practical Test (for deferred candidates) ... | ... | ... | ... | ... |
| M.Ed. ... | January 15 | ... | March 19 | ... |
| Agriculture— | | | | |
| B.Sc. (Ag.) | | | | |
| First Examination ... | January 15 | ... | March 19 | ... |
| Second Examination | Do. | ... | Do. | ... |
| Final Examination ... | Do. | ... | Do. | ... |

* (Note:—The first test for the students will be conducted by the

| Date of commencement of examinations. | Last date of publication of results. |
|--|---|
| December 10 or April 1 | January 5 or May 1 |
| April 1 or December 10 | May 1 or January 5 |
| March 20 | 1st Monday in May. |
| March 20 | 1st Monday in May. |
| Immediately after Part I | Do. |
| March 20 | 1st Monday in May. |
| Immediately after Part I | Do. |
| April 1 or September 1 | 4th Monday in May or October 5 |
| First week of March | ... |
| April 1 | 4th Monday in May. |
| April 1 | 3rd Monday in May. |
| Do. | Do. |
| April 8 | Do. |

Colleges in February *vide* Regulation 4 (b) of Chapter LXIV)

| Examinations. | Last date for receipt of applications, together with the receipt of payment of fees, in the Registrar's Office. | | Last date for submitting certificates. | | |
|----------------------------------|---|--------------|--|-----------|-----|
| Veterinary Science— | | | | | |
| B.V.Sc.— | | | | | |
| Preliminary Examination. | { | April 5 | ... | April 15 | ... |
| | | or | | or | |
| | | September 15 | ... | October 1 | ... |
| Intermediate Examination—Part I | ... | Do. | ... | Do. | ... |
| Intermediate Examination—Part II | ... | Do. | ... | Do. | ... |
| Final Examination | ... | Do. | ... | Do. | ... |
| B.Sc. (Tech.)— | | | | | |
| Part I | ... | January 15 | ... | March 19 | ... |
| Part II | ... | Do. | ... | Do. | ... |
| B. Com.— | | | | | |
| Part I | { | January 10 | ... | March 9 | ... |
| | | or | | or | |
| | | July 5 | ... | August 15 | ... |
| Part II | ... | Do. | ... | Do. | ... |
| Part III | ... | Do. | ... | Do. | ... |
| Oriental Titles— | | | | | |
| Entrance Test to Vidvan course. | | November 15 | ... | | ... |
| Preliminary | ... | Do. | ... | March 9 | ... |
| Final | ... | Do. | ... | Do. | ... |
| B. O. L.— | | | | | |
| Part I | { | November 15 | ... | March 9 | ... |
| | | or | | or | |
| | | July 5 | ... | August 15 | ... |

| Date of commencement of examinations. | Last date of publication of results. |
|--|---|
| May 1 or October 15 | ... 1st Monday in June or ... 2nd Monday in November. |
| Do. | ... Do. |
| Do. | ... Do. |
| Do. | ... Do. |
| April 1 | ... 3rd Monday in May. |
| April 8 | ... Do. |
| March 20 or September 1 | ... 4th Monday in May or ... October 5. |
| Immediately after the examination in Part I. | Do. |
| Immediately after the examination in Part II. | Do. |
| Same day as Part II—Second Language—Intermediate Examination in March. | 4th Monday in May. |
| March 27 | ... Do. |
| Immediately after the Preliminary Examination. | Do. |
| March 20 or September 1 | ... 4th Monday in May or ... October 5. |

| Examinations. | | Last date for receipt of applications, together with the receipt of payment of fees, in the Registrar's Office. | | Last date for submitting certificates. | |
|--|-----|---|-------------------|--|-------------------|
| B. O. L. (<i>contd.</i>) | | | | | |
| Part II | ... | November 15 | ... | March 9 | ... |
| Part III | ... | Do. | | Do. | ... |
| Oriental Titles— (Revised) | | | | | |
| *Entrance Test | ... | November 15 | ... | ... | |
| English Papers (Matriculation Examination) for Entrance Test to Intermediate—Group D and Sangita Siromani candidates | | Do. | ... | ... | |
| †Preliminary | { | November 15 or July 5 | ... ... ... | March 9 or August 15 | ... ... ... |
| †Final | ... | Do. | | Do. | |
| B. O. L. (Revised)— | | | | | |
| Part I | { | November 15 or July 5 | ... ... ... | March 9 or August 15 | ... ... ... |
| †Part II | { | November 15 or July 5 | ... ... ... | March 9 or August 15 | ... ... ... |
| B. O. L. (Honours) | | | | | |
| Part I | { | November 15 or July 5 | ... ... ... | March 9 or August 15 | ... ... ... |
| Part II | ... | November 15 | ... | March 9 | ... |
| M. O. L. | { | January 31 or August 31 | ... ... ... | ... ... ... |  |

*Also common for Entrance Test for Intermediate—Group D

†Examinations in Oriental Titles (Intermediate—Group D) and in which colleges are affiliated and candidates are appearing therefrom.

** The paper on General Indian History should be taken along

†The paper on the History of India should be taken along

| Date of commencement of examinations. | Last date of publication of results. |
|--|--------------------------------------|
| Same day as O. T. Final Examination. | 4th Monday in May |
| Immediately after the O.T. Final Examination | Do. |
| Same day as Part II—Second Language—Intermediate Examination in March. | 4th Monday in May. |
| March 20 ... | 4th Monday in May. |
| March 27, ... | 4th Monday in May |
| or ... | or |
| September 4 ... | October 5. |
| Do. ... | Do. |
| March 20 ... | 4th Monday in May |
| or ... | or |
| September 1 ... | October 5. |
| ** March 27 ... | 4th Monday in May |
| or ... | or |
| September 4 ... | October 5. |
| March 20 ... | 4th Monday in May |
| or ... | or |
| September 1 ... | October 5. |
| ‡ March 20 ... | 4th Monday in May. |
| ... | ... |
| ... | ... |

candidates:

B.O.L. (Pass) Part II will be held in September only in such languages

with the B.A. Group (iv-a) candidates on the same day.

with the B.A. (Hons.) Branch III candidates on the same day.

| Examinations. | Last date for receipt of applications, together with the receipt of payment of fees, in the Registrar's Office. | | | Last date for submitting certificates. | |
|---|---|-------------|----------|--|-----|
| Sangita Siromani— | | | | | |
| Preliminary | | | | | |
| Part I | ... | November 15 | ... | March 9 | ... |
| Part II | ... | Do. | ... | Do. | ... |
| Part III | ... | Do. | ... | Do. | ... |
| Final— | | | | | |
| Part I | ... | Do. | ... | Do. | ... |
| Part II | ... | Do. | ... | Do. | ... |
| †Diploma in Economics... | January 15 | ... | March 19 | ... | ... |
| Diploma in Politics and Public Administration | January 15 | ... | April 15 | ... | ... |
| Diploma in Statistics | March 15 | ... | April 15 | ... | ... |
| Diploma in French | March 15 | ... | July 1 | ... | ... |
| Diploma in German | March 15 | ... | July 1 | ... | ... |
| Diploma in Librarian-ship. | January 15 | ... | April 1 | ... | ... |
| *Diploma in Geography. | January 15 | ... | April 1 | ... | ... |
| Diploma in Indian Music. | January 15 | ... | April 1 | ... | ... |

† Last date for submission of thesis, July 1.

* Last date for submission of Dissertation, May 15.

| Date of commencement of examinations. | Last date of publication of results. |
|--|--------------------------------------|
| March 20 ... Same day as for Intermediate Part II. Immediately after the Examination in Part II. | 4th Monday in May. Do. Do. |
| March 20 ... Immediately after the Examination in Part I. | 4th Monday in May. Do. |
| July 10 ... | 3rd Monday in August. |
| July 10 ... | 3rd Monday in August. |
| July 10 ... | 3rd Monday in August. |
| July 10 ... | 3rd Monday in August. |
| July 11 ... | 3rd Monday in August. |
| April 20 ... | 4th Monday in May. |
| April 10 ... | June 15. |
| April 10 ... | 4th ⁵ Monday in May. |

Provided that applications for admission to examinations received within a period of five days after the dates specified above will be accepted on payment of a fee of Rupee one per candidate.

Provided further that if any of the dates under columns 2 to 5 *supra* happen to be holidays, the next working day shall be considered as the due date for the purpose enumerated under each of the columns.

Provided also that it shall be competent for the Registrar to publish the results on any day succeeding the dates mentioned only when it has been found necessary to postpone publication beyond the dates prescribed, after giving notice in the newspapers.

Provided also that :—

- (1) In the case of the March-April Examinations Thursday, Friday and Saturday before Easter Day and Easter Monday and Easter Tuesday shall be *dies non*.
 - (2) The Syndicate shall so fix the dates of the several examinations as to avoid, as far as may be practicable, the setting of duplicate sets of question papers in the same subject.
 - (3) The dates of commencement of all examinations and time-tables in detail shall be published in the *Fort St. George Gazette* by the Syndicate in the preceding February or August.
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CHAPTER XXXIX.

Transfer and Term or Annual Certificates.

(*Regulations*).

1. No student who has previously studied in any recognized school or college shall be admitted to a college unless he presents a transfer certificate showing—

**Transfer
Certificates.**

(a) the name of the student in full,

(b) the date of birth as entered in the admission register, .

(c) the dates on which he was admitted to and on which he left the institution,

(d) the class in which he studied at the time of leaving it,

(e) the subjects or portions thereof studied by him while enrolled,

(f) if it be the time when annual promotions take place whether he is qualified for promotion to a higher class,

(g) that he has paid all fees or other moneys due to that institution in respect of the last term in which he was enrolled, and a certificate of Medical Inspection, if any, from the school in which he last studied,

(h) reasons for leaving college.

(*N.B.*—Clause (h) must be filed in when the Transfer Certificate is sent to the Syndicate of the University under Regulation 4 of this Chapter).

No student shall be enrolled pending the production of such certificate. Every such certificate shall be endorsed with the admission number under which the student is enrolled and shall be filed for reference and inspection.

2. A student admitted to a college shall be required to undergo a Medical Inspection within the first term of the first year of the Intermediate Course and a re-inspection during the first term of the Junior B.A. Course and the first term of the first year of the

**Certificates of
Medical
Inspection.**

B.A. (Honours), B.Sc. (Pass) or B.Sc. (Honours) Course. A student proceeding from one college to another shall be required to produce, along with his Transfer Certificate, the Medical Certificate given in the previous college. Before admission to the B.A. (Pass or Honours) or B.Sc. (Pass or Honours) Course the student shall be required to produce his Certificate of Medical Inspection given during the Intermediate Course.

Such medical inspection shall be conducted by a doctor possessing the University qualification of L.M. & S., or M.B. & B.S., or a registrable British qualification.

In a case where a college has difficulty in arranging for Medical Inspection, a report should be made to the Syndicate by the college in question.

3. A student applying for a transfer certificate during a college term on any day of which he has been enrolled, or applying not later than the fifth working day of the college term immediately following, shall forthwith be given such certificate upon payment of all fees or other moneys due, or of such portion thereof as the Principal may see fit to demand, for the college term in which he was enrolled.

A student applying for such certificate after the fifth working day of the college term immediately following that during which he has been last enrolled shall forthwith be given it on payment of (1) all fees or other moneys due, or of such portion thereof as the Principal may see fit to demand, in respect of the college term in which he was last enrolled, and (2) an additional fee of Rs. 3 at the option of the Principal.

Provided that, when a student has been enrolled at favourable fee rates, he shall be liable for such rates only.

No student shall be considered to have been enrolled in any college term unless he has attended the college and received instruction for at least one day of that college term or has paid the fees or portions thereof prescribed.

In the case of a student who has been a candidate for a University Examination, the results of which have not been published before the beginning of the college term, the eleventh day after the results of that examination have

been announced at the Senate House* shall be counted for him the first working day of the college term so far as the grant of a transfer certificate is concerned.

In the event of a Principal refusing or delaying to give a transfer certificate to which a student may be entitled the student shall have right of appeal to the Syndicate.

4. If any student is expelled from a Constituent or an Affiliated College, intimation of the fact of expulsion, with a statement of the reasons therefor, shall be given forthwith by the Principal (a) to the parent or guardian of the student, (b) to the Syndicate; intimation to the Syndicate shall be accompanied by the transfer certificate of the student. The Syndicate, on the application of the student or his parent or guardian, may after making such enquiry as it deems proper deliver the certificate to the student with any necessary endorsement or withhold it temporarily or permanently.

5. The academic year for colleges affiliated or recognised in Arts, Science, Teaching and Law shall consist of three terms, which shall ordinarily begin and end as follows:—

First term—June to September, closing with the Michaelmas holidays.

Second term—October to December, closing with the Christmas holidays.

Third term—January to April, closing with the Summer holidays.

6. A student shall ordinarily qualify for the annual certificate in one and the same college, but in special cases the Syndicate may allow attendance in different colleges to be combined for purposes of the annual certificate.

7. A student in the Arts or Science Courses desirous of transfer from one college to another shall apply to the Syndicate for permission to combine attendances at the

*or in the Building in which the Office of the Registrar, University of Madras is located.

two colleges, for purposes of the annual certificate. Such applications shall be submitted in every case prior to making the desired transfer and shall furnish valid reasons for the change proposed. This rule applies to a transfer during a term as well as to a transfer at the end of an academic year when an additional term is proposed to be kept in a different college. An application to combine attendances shall invariably be accompanied by (i) the written consent to the proposed transfer of the Principal of the college in which the student is studying and (ii) the written promise of admission from the Principal of the college which he proposes to join, together with an assurance countersigned by the latter Principal that the student, if permitted by the Syndicate to combine attendances, will, in the main, be able to continue in his college the course of study already commenced by the student under each part of the examination.

In the case of a student in Arts or Science who has been permitted to combine attendances in two colleges, the annual certificates will be accepted as satisfying the Regulations, provided the student has kept either,

(a) three quarters of the possible attendances in each college before and after his transfer respectively,

or

(b) three quarters of the combined total of possible attendances in the two colleges taken together.

8. In colleges affiliated or recognised in Arts, Science, Teaching and Law, the grant of the annual certificate shall be in respect of three terms ordinarily consecutive comprising one year; but it shall be competent for the authorities of a college to grant such certificate in respect of three terms which are not consecutive, provided that the student has during those terms completed the necessary courses of study for the year.

**Conditions of
grant of annual
Certificate.**

9. The grant of the annual certificate shall be subject, in addition, to the following conditions:—

(1) In colleges affiliated or recognised in Arts, Science, Teaching and Law, the certificate

shall not be granted unless a student has kept three-fourths of the attendances prescribed by the college in the course of instruction followed by him during the year, and in Institutions approved by the Syndicate under the Regulations for Titles, Certificates of Proficiency and Degree in Oriental Learning, unless he has kept three-fourths of the attendances prescribed by the institution in the particular course of study for which the certificate is issued.

- (2) In colleges of Science, the certificate shall not be granted unless a student has kept three-fourths of the attendances prescribed by the college in the course of instruction followed by him during the year, in colleges of Medicine unless he has attended four-fifths of the lectures in each course, and in colleges of Engineering unless he has kept three-fourths of the attendances prescribed by the college.
- (3) The certificate shall not be granted unless the student has completed the course of instruction to the satisfaction of the authorities of his college and his progress and conduct have been satisfactory.

Students for want of Progress Certificate to undergo additional instruction.

10. In the Intermediate or the B.A. (Pass) Degree Course a student who has failed to earn the progress certificate at the end of the first year's course shall be required to rejoin the first year class for another full year.

A student who has not been selected for the March—April University Examination but who at the close of the academic year is certified by the Principal to have made such satisfactory progress that he may be admitted to the examination, may appear for a subsequent examination without further attendance at a college, provided that he has earned the necessary attendance certificate.

A student who has failed to earn the progress certificate for the second academic year must attend college to

receive such additional instruction as the Principal may, in his discretion, prescribe so as to enable him to earn the required progress certificate.

11. The Regulations governing attendance and progress and combination of attendance shall apply *mutatis mutandis* to students in the Faculty of Law.

**Forms of
Certificates.**

12. The certificates shall be drawn up in the prescribed form (*vide* Appendix XXIII).

CHAPTER XL.

Admission to Examinations and Exemption from Annual or Term Certificates.

(Regulations and Ordinances).

Regulation.

Admission to Examination only after Matriculation.

1. Only persons whose names are contained in the Register of Matriculates shall be admitted to any examination other than the Matriculation Examination.

Regulation.

Registration of application.

2. Before being admitted to an examination a candidate must have been registered therefor. A candidate shall be registered afresh on each occasion on which he wishes to present himself for an examination and a candidate shall be registered only after he has submitted an application in the prescribed form and paid the fee prescribed.

Regulation.

Conditions for admission—Preliminary qualification.

3. Every candidate for an examination shall produce evidence of having previously passed the qualifying examination prescribed by the Laws, if any.

Regulation.

Production of attendance Certificates.

4. He shall also, unless exempted by a special order of the Syndicate made either on the recommendation of the Academic Council or as otherwise provided under the Laws, produce in the prescribed form the certificate or certificates required by the Laws of the University.

Regulation.

Admission to Examination only on production of certificates.

5. No candidate shall be permitted to sit for an examination unless his annual (term) certificates of attendance, conduct and progress or the order of exemption granted to him have been received by the Registrar before the commencement of the examination.

6. In the case of the Matriculation Examination, the Syndicate may grant exemption from the production of the prescribed certificate of attendance to—

Ordinance.
Exemption
from
attendance
certificate—
Matriculation
Examination.

(1) A candidate who has attained the age of twenty years on the first day of March in the year in which he appears for the examination.

(2) A *bona fide* teacher, provided (a) he has completed a course of study in the Third Form (or the equivalent thereto in the case of courses of study other than the S.S.L.C. course) and has qualified for promotion to the higher class and (b) satisfies the conditions laid down in Regulation 9 (j) of this Chapter.

(3) A candidate who produces evidence of having qualified for promotion to the Fourth or higher Form (or the equivalent thereto in the case of courses of study other than the S. S. L. C. course) shall be considered for exemption. Such a candidate should receive approved instruction, during the whole period prior to his proposed appearance at the Matriculation Examination, which shall be not less than three years in the case of those promoted to IV Form, two years in the case of those promoted to V Form, and one year in the case of those promoted to VI Form. Satisfactory evidence should be produced that the applicant is of good character and has received suitable instruction for the period required.

7. A candidate who has attained the age of fourteen years and three months by the first day of March of the year of appearing for the examination may be permitted by the Syndicate to sit for the Oriental Title Entrance Test or the *Entrance Test for Intermediate—Group D.* (*i. e.* Oriental Title Entrance Test and Matriculation English) of the University of Madras, without the production of any certificate of attendance.

Ordinance.
Conditions of
admission to
the O. T.
Entrance Test
or Entrance
Test for
Intermediate—
Group D.

8. In the case of other examinations, the Academic Council may recommend the grant of special exemption by the Syndicate subject to the condition that no such application shall be granted in the case of a student studying in a college or a Department of the University, without a recommendation from the Head of the College, or the Head of the University Department in which he is a student.

9. The Syndicate may grant exemption :—

Regulation. (a) To a student studying in a college or in a Department of the University, who has failed to keep three-fourths of the attendances prescribed by the Institution or the University Department of which he is a student, and is unable to produce his annual certificate of attendance, conduct and progress, provided that—

- (i) the shortage of attendance does not exceed five days ; and
- (ii) the Syndicate considers that the reasons given for failure to keep the prescribed attendance are satisfactory.

If the shortage of attendance exceeds five days, the exemption shall be granted only on the recommendation of the Academic Council or its Standing Committee.

(b) To a student studying in a college in which the language in respect of which exemption is sought is not taught, provided that the Syndicate is satisfied—

Exemption to Students in a Language (other than English)—when and how granted.

(i) as to the reasons assigned by the student for not studying in a college where the language in question is taught, and

- (ii) as to the arrangements made for instruction being received by the student in that language in the following examinations :—

| | |
|-----------------------------|--|
| <i>Name of Examination.</i> | <i>Part or Group for which exemption may be granted.</i> |
|-----------------------------|--|

Intermediate

Part II—Second Language.
One of the languages in Group B of Part III.

B.A.

Part II—Second Language.

(c) To a candidate who has passed the Intermediate Examination in Arts and Science to enable him to appear again for the same examination offering a different set of optional subjects under Part III of the Intermediate course, provided he has undergone the course of study prescribed in the set of subjects selected and that he has attended a college for a further period of not less than one year. [He shall be exempted from re-examination in English and the Second Language.]

(d) To a candidate who, having passed Parts I and II (New Regulations) or Part I (Old Regulations) and failed in Part III (New Regulations) or Part II (Old Regulations) of the Intermediate Examination in Arts and Science on at least two occasions in one set of optional subjects, desires to present a new set of optional subjects from the production of the first year's certificate of attendance to appear for Part III (New Regulations) of the Intermediate Examination in Arts and Science.

(e) To a candidate who, having passed Parts I and II (New Regulations) or Part I (Old Regulations) and failed in Part III (New Regulations) or Part II (Old Regulations) of the B. A. Degree Examination on at least two occasions in one set of optional subjects, desires to present a new set of optional subjects, provided that the new subjects do not require a course of laboratory training from the production of the first year's certificate of attendance to appear for Part III (New Regulations) of the B. A. Degree Examination.

(f) To a candidate for the B. A. Degree Examination who has passed at least one of the Divisions of the B. A. Degree Examination under the Old Bye-laws and has been permitted to appear (in accordance with the provisions of the Transitory Regulations) for the B. A. Degree Examination under the New Regulations in the Parts or Groups corresponding to the Divisions of the B. A. Degree Examination under the Old Bye-laws which he has not passed.

(g) To a candidate for the Final M.B. & B.S. Degree Examination who having failed in the examination is unable to produce an additional certificate of attendance for six months in one or more subjects of the examination in accordance with the Regulations, provided that he is recommended for exemption by the Principal of a Constituent or an Affiliated Medical College, in which he is studying.

(h) To a candidate from the production of either or both of the annual certificates of attendance, required for the Oriental Title Examinations, provided that he is at the time of the examination at least thirty years of age ; provided, however, it shall be competent for the Syndicate to waive a strict compliance with the age limit in the case of women candidates for a period of five years from the academic year '944-45.

Notwithstanding anything contained in the above Regulation, it shall be competent for the Syndicate to allow candidates who have already been granted exemption from the production of attendance certificates with a view to appearing for any of the Oriental Title Examinations under Regulation 8 (h) (i) of Chapter XXXIX, Volume I, Part II, Calendar, 1942-43, to sit for any division or whole of the Oriental Title Examinations.

NOTE—As and from the academic year 1947-48 the examinations in the Titles will be confined only to such subjects as are offered by colleges.

(i) To a candidate who has passed the L.M.P. Diploma Examination of the Madras Government after a five years' course from the production of attendance certificates for both the years of the Intermediate course with a view to appearing for the Intermediate Examination in Arts and Science in order to enable him to qualify for admission to the M.B. & B.S. course under the Regulations in force for the M.B. & B.S. Degree course.

Exemption—
Bona-fide
teachers.

(j) To a *bona-fide* teacher under the following conditions :—

A *bona-fide* teacher employed in a School recognised by the Madras University and by the Directors of Public Instruction, Madras, Cochin and Hyderabad, the Chief Educational Officer, Pudukkottah, the Inspector of Schools, Coorg and Bangalore, the Under-Secretary to the Hon'ble the Resident at Hyderabad (Deccan), or the District Educational Councils, and situated within the jurisdiction of the Madras and Annamalai Universities shall be entitled to apply for exemption.

A teacher employed in a school in the State of Sandur and Banganapalle shall also be entitled to apply for exemption provided his application is recommended by the Director of Public Instruction or corresponding officer of the State concerned.

Applications for exemption should be made by those teachers with the permission of their managements and managements should certify that the applicants are *bona-fide* teachers in their respective Institutions.

Bona-fide teachers applying for exemption should have been in service as whole-time teachers for not less than three years on the date of such application.

(i) *Intermediate Examination.*

An applicant for exemption to appear for the Intermediate Examination should either have passed the Matriculation Examination of this University or an examination recognised as equivalent thereto or have been placed on the list of candidates declared eligible for admission to courses of study in this University on the results of the S.S.L.C. Examination; provided further that he shall not be allowed to appear for the examination until two years have elapsed between the date of passing the Matriculation Examination or other qualifying Examination and that of appearing for the Intermediate Examination; provided, however, that a candidate who satisfies the conditions laid down in Regulation 1 (a) (4)

of Chapter XLII—Intermediate Examination—shall be eligible to apply for exemption to appear for the Intermediate Examination with Group D under Part III.

(ii) *B. A. Degree Examination.*

Every teacher applying for exemption to appear for the B.A. Degree Examination should have passed the Intermediate Examination of the Madras University or an examination recognised as equivalent thereto; provided that he shall not be allowed to appear for the examination until two years have elapsed between the passing of the Intermediate or other qualifying Examination and appearing for the B.A. Degree Examination;

provided further that if he proposes to appear for a Science Group which requires a practical training in a Laboratory, he shall produce a certificate of having done the prescribed laboratory work from the Professor of a constituent or an affiliated first-grade college countersigned by the Principal of that college.

(iii) *M.A. Degree Examination.*

Every teacher applying for exemption from the production of the prescribed attendance certificates for the M.A. Degree Examination shall have passed the B.A. Degree Examination of the Madras University or an examination recognised as equivalent thereto; provided that he shall not be permitted to appear for the examination until two years have elapsed between the passing of the B.A. Degree Examination or other qualifying examination and appearing for the M.A. Degree Examination.

(iv) *Oriental Title Examination.*

Every teacher applying for exemption from the production of the prescribed attendance certificates for any Oriental Title Examination shall have passed the Entrance Test before he is permitted to sit for the Preliminary Examination.

He may be permitted to sit for the Final Examination one year after passing the Preliminary Examination.

(v) *B.O.L. Degree Examination.*

Every teacher applying for exemption to appear for the B.O.L. Degree Examination shall have passed the Intermediate Examination of the Madras University with Group D, or an examination recognised as equivalent thereto, provided that he shall not be allowed to appear for Part I of the examination until one year has elapsed and for Part II of the examination until two years have elapsed between the passing of the Intermediate or other qualifying examination and appearing for the B.O.L. Degree Examination.

(vi) *B.O.L. (Honours) Degree Examination.*

Every teacher applying for exemption to appear for the B.O.L. (Honours) Degree Examination shall have passed the B.O.L. Degree Examination of the Madras University or an examination recognised as equivalent thereto provided that he shall not be allowed to appear for Part II of the examination until two years have elapsed between the passing of the B.O.L. or other qualifying examination and appearing for the B.O.L. (Honours) Degree Examination.

(k) To a candidate for the B.Sc. (Honours) Degree Examination who has passed the B.A. Degree Examination in a science subject or B.Sc. Degree Examination of this University or an examination recognized as equivalent thereto, provided he has

**Exemption—
Demonstrators
appearing for
B.Sc. (Hons).**

been a Demonstrator for at least two years in a First Grade or Honours College of this University in which the subject or subjects he desires to offer for the examination is/are taught for the B.A., B.Sc. or B.Sc. (Honours) Degree course on the main standard. Such a candidate shall pursue a course of study for one year in a college recognised or affiliated in the Honours course and produce the certificate of attendance and progress.

10. In cases other than those specially provided for in the above Laws or in other Statutes, Regulations or Ordinances, the Syndicate may, by special order, grant exemption on the recommendation of the Academic Council. Any such exemption may be made subject to such conditions as the Syndicate may think fit.

Act and Regulation.
Other Exemptions—General conditions.

11. Applications for exemption from students not studying in a college shall in every case be forwarded so as to reach the Registrar before the first October and the first March preceding the March—April and September Examinations, provided, however, that applications for exemption from the production of attendance certificates for the examinations under Laws 7, 9 (h) and 9 (j), proviso to (i) *re* Intermediate—Group D, (iv), (v) and (vi) of this Chapter shall be forwarded so as to be received before the first August preceding the examinations.

Ordinance.
Exemption applications—when to be made.

12. Orders of exemption granted under the preceding Laws shall be permanent.

Ordinance.
Exemption order permanent.

13. Notwithstanding anything that may be contained to the contrary in the Laws of the University, it shall be competent for the Syndicate—

Regulation.
War Emergency Law.

(1) with regard to students whose courses of studies, in countries involved in or affected by the War (in September 1939), have been interrupted, to dispense with a strict compliance with the Laws, as may be decided in each and every case in regard to admission to courses of studies or attendance on courses of this University or such other conditions as may be laid down in the Laws, and

(2) to grant to students of this University who have rendered approved War Service in His Majesty's Forces such concessions and dispensations from the Laws of the University as may be deemed fit and necessary in each case.

CHAPTER XLI.

Matriculation Examination.

(Ordinances.)

1. The Matriculation Examination shall be open to the following:—

- (a) Candidates from schools recognised by the Director of Public Instruction, Madras, as teaching to the Matriculation standard, but not preparing for the Secondary School Leaving Certificate Examination.
- (b) Candidates from schools in Indian States situated within the jurisdiction of this University and certified by the Durbars of the States concerned to be organised and conducted so as to ensure efficient training to the standard of the Matriculation Examination.
- (c) Candidates from schools in the French Territories in South India, certified by the Director of Public Instruction, French India, to be organised and conducted so as to ensure efficient training to the standard of the Matriculation Examination.
- (d) Candidates who hold completed School-Leaving Certificates issued under the authority of the Government of Madras or such other authority as may be accepted by the Syndicate, in accordance with the provisions contained in Ordinance 2 *infra* and subject to the restriction therein.

**Recognition
of Schools.**

Matriculation Examination.

Note:—For the scrutiny fee to be paid by candidates for the examination under this Ordinance *vide* Ordinance 5 II (1) (b) of Chapter XXXVII.†

2. No candidate shall be admitted to the Matriculation Examination unless he has reached the age of fourteen years and three months by the first day of March of the year of

**Condition of
admission.**

appearing for the examination, and has undergone a course of study in one of the High Schools specified in Ordinance 1 of this Chapter for a period of not less than one academic year subsequent to his promotion to the Sixth Form;

provided, however, that no candidate who holds a completed School-Leaving Certificate shall be permitted to appear for the Matriculation Examination until the expiry of one academic year after having completed the course of study prescribed for the School-Leaving Certificate Examination.

3. The course of study shall consist of five parts.

(1) *English Language*.—Text-books shall be prescribed of which a detailed knowledge **Course of Study.** English. may be required.

(2) *A Second Language*.—One of the following languages at the option of the candidate:—

| | | | |
|---------------|-------------|------------|------------|
| (a) Classical | { | Sanskrit. | Arabic. |
| | | Greek. | Persian. |
| | | Latin. | Hebrew. |
| | | | Syriac. |
| | (1) Foreign | French. | German. |
| (b) Modern | { | Tamil. | Oriya. |
| | | Telugu. | Hindi. |
| | | Kannada. | Bengali. |
| | | Malayalam. | Burmese. |
| | | Urdu. | Sinhalese. |
| | | Marathi. | |

Second Language.

In each language, there shall be prescribed text-books. In the Indian languages, the texts prescribed shall be mainly in modern prose.

(3) *Mathematics*.—The subjects included shall be (a) Arithmetic, (b) Algebra, and (c) Geometry. **Mathematics.**

(a) *Arithmetic*.—The principles and processes of Arithmetic applied to whole numbers and vulgar and decimal fractions. The metric system. Approximations to a specified degree. Contracted methods of multiplication and division of decimals. Practice,

ratio and proportion. Square and cubic measure. Direct applications of the term *per cent*; including interest, present-worth and discount, stocks and shares, profit and loss, exchange, square root.

- (b) *Algebra*.—Symbolical expression of general results in Arithmetic. Algebraical laws and principles and their applications. Factorization of simple functions. Equations, conditional and identical. Equations of the first degree in one, two and three variables and the principles involved in their solution. Solution of problems by means of such equations. Equations of the second degree in one variable and the principles involved in their solution. Theory of positive integral indices. Square root. Graphs of simple algebraic functions.

- (c) *Geometry — Experimental*. — Construction of lines, angles, circles, perpendiculars, parallels, tangents, chords, triangles and regular polygons from given data. Division of lines in given ratios. Bisection of angles. Graphical extraction of arithmetical square roots.

Theoretical. — Angles at a point. Parallel straight lines. Triangles and rectilinear figures. Areas, simple loci. Elementary propositions on circles. Proofs of the constructions in Experimental Geometry. Easy deductions.

A detailed syllabus in Geometry shall be prescribed.

- (4) *Elementary Science*.—The subjects included shall be Elementary Physics and Elementary Chemistry as defined in a syllabus.

**Elementary
Science.**

(5) *History and Geography.*—
History—

**History and
Geography.**

(1) Outlines of the History of Great Britain and Ireland—a period or periods to be prescribed each year, as defined in a syllabus.

(2) Outlines of the History of India—a period or periods to be prescribed each year, as defined in a syllabus.

Geography—

(1) Geography of India, Great Britain and Ireland, as defined in a syllabus.

(2) Geography of Europe, Asia, Africa, America and Australia, as defined in a syllabus.

4. The Examination shall comprise five divisions.

**Scheme of
Examination.**

(1) *English*.—There shall be two papers, each of three hours' duration and carrying 100 marks each. The first paper shall be mainly upon the prescribed texts and shall be designed to test the candidate's proficiency in composition and his knowledge of grammar and idiom. The second paper shall contain questions on (a) the non-detailed texts prescribed, (b) paraphrase not based on the prescribed texts, and (c) the conversion, expansion, and condensation of sentences. Paraphrase shall be treated as a test of the candidate's power to understand and give the general meaning of passages of prose or poetry.

(2) *Second Language*.—In each language, there shall be one paper of three hours' duration and carrying a maximum of 100 marks. The paper shall consist of two parts and not less than half the total marks shall be assigned to the second part. In a classical or foreign language, the first part shall contain passages for translation from the textbooks and questions on grammar and idiom,

and the second shall contain unseen passages for translation from the selected language into English and from English into the selected language. In an Indian language, the first part shall contain questions on the detailed text-books and on grammar and idiom, and the second part shall consist of questions on the non-detailed text-books and translation from English to the selected language.

(3) *Mathematics*.—There shall be two papers—

(1) Arithmetic and 3 hours. 100 marks.
Algebra.

(2) Geometry ... 3 hours. 100 Marks.

(4) *Elementary Science*.—There shall be one paper of three hours' duration carrying 100 marks.

(5) *History and Geography*.—There shall be two papers—

(1) History ... 3 hours. 100 marks.

(2) Geography ... 3 hours. 100 marks.

5. A candidate shall be declared to have passed the examination if he obtains not less than thirty-five per cent. of the marks in each of the divisions, provided that a candidate who fails to obtain the required minimum in one division only but who passes in English and gains fifty per cent. of the total marks in the whole examination shall be declared to have passed. All the other candidates shall be deemed to have failed in the examination.

Successful candidates who obtain not less than sixty per cent. of the total marks shall be placed in the first class. Successful candidates who obtain less than sixty per cent. but not less than forty-five per cent. of the total marks shall be placed in the second class. Other successful candidates shall be placed in the third class.

CHAPTER XLII.

Intermediate Examination in Arts and Science.

1. The Intermediate Examination in Arts and Science shall be open to candidates who—

- Admission to Course.**
- (a) (1) have passed the Matriculation Examination of this University or of any other Indian University, or have passed a qualifying examination of any University outside India which may be accepted by the Syndicate as equivalent to the Matriculation Examination of this University; or
 - (2) have (i) completed (a) the S.S.L. Certificate issued by the Government of Madras, or any of the Indian States of Cochin or Hyderabad, or (b) the E.S.L. Certificate issued under the orders of the Government of Madras or the Administration of Bangalore and Coorg; and (ii) have been declared eligible for admission to a course of study in this University; or
 - (3) have completed the S.S.L. Certificate or the E.S.L. Certificate issued under the orders of the Government of Madras and have been declared eligible for admission to a University course of study by the Andhra or Annamalai University and recognized by the Syndicate of this University; or
 - (4) have passed the *Entrance Test for Intermediate—Group D* (i.e. Oriental Title Entrance Test and Matriculation English at one and the same appearance) of the University of Madras; provided, however, that such candidates shall be eligible to take only Group D under Part III of the Intermediate Course; or

[*Note*:—Candidates who desire to be admitted to Intermediate—Group D should again sit for the whole examination (*viz.*, Oriental Title Entrance Test and Matriculation English) even though they might have

passed the Oriental Title Entrance Test previously. Candidates taking the Entrance Test (Sanskrit) conducted by the Educational Department of the Government of Madras should pass that examination as well as Matriculation English in one and the same year:]

- (5) have passed an examination conducted by any University, Board of Secondary Education, or other duly constituted authority in any Province or State in India and have qualified themselves in the respective examinations or have been declared eligible for admission to a University course on the results of the examination in the respective Province or Indian State, accepted by the Syndicate as equivalent to the Matriculation Examination of this University;

and (b) have undergone in a Constituent or an Affiliated College a course of study in the prescribed subjects or a period of not less than two academic years or six terms.

Course of study. 2. The course shall consist of three Parts.

Part I—English.

Books shall be prescribed in English Prose and Poetry. In prescribing them, the following objects shall be kept in view:—

- (a) the improvement of the students' knowledge of the English language and of its literature;
- (b) the development of their ability to extend the range of their knowledge by training them to read with ease and discrimination.

The course shall consist of—

- (1) The detailed study of certain prescribed books. There shall be one play of Shakespeare, 1,000 lines of Poetry, and two Prose books.
- (2) The perusal, as distinct from a detailed study, of other prescribed books. There shall be not more than three books.

Note:—The books prescribed from year to year under (1) and (2) shall be of the same average length and difficulty. Certain of the prescribed books which are to be studied in detail may be retained from year to year. The books which are prescribed for perusal under (2) shall be changed every year.

- (3) Such instruction and exercise in rhetoric and composition as may be expected to develop the students' powers of understanding English and writing it clearly, concisely, and correctly. This instruction should include the following topics:—

Choice of words. The paragraph as the unit of prose composition. The sentence as a constituent portion of the paragraph. The periodic and the loose sentence. Unity, balance and emphasis in relation to paragraph and sentence. Logical sequence of sentences and paragraphs and explicit references to preceding paragraphs, as securing coherence in an essay.

Part II—A Second Language.

One of the following languages at the option of the candidate:—

| | | | |
|---------------|---|------------|------------|
| (a) Classical | { | Sanskrit. | Persian. |
| | | Greek. | Hebrew. |
| | | Latin. | Syriac. |
| | | Arabic. | |
| (1) Foreign | | French. | German. |
| (b) Modern | { | Tamil. | Oriya. |
| | | Telugu. | Hindi. |
| | | Kannada. | Bengali. |
| | | Malayalam. | Burmese. |
| | | Urdu. | Sinhalese. |
| | | Marathi. | |

In each of the languages, text-books shall be prescribed from time to time.

The course shall comprise the study of text-books and grammar, translation, and in the case of Indian languages, original composition. The scope of the course may be indicated by the allotment of four hours a week for instruction.

The main object of the study of an Indian language is to train the student to use it as a vehicle of current thought.

Candidates taking Group D under Part III shall not be required to take a language under Part II, but shall answer a paper on Composition or Translation as prescribed under Part III—Group D.

Part III—Optional Subjects.

Three subjects to be selected out of the following Groups A, B and C, or Group D at the option of the candidate :—

| | | |
|---------|-----|--|
| Group A | { | Mathematics. Physics. Chemistry. Natural Science. Geography. Psychology. |
| Group B | ... | { |
| | | Logic. Indian History. Ancient History. Modern History. Islamic History. |
| | | { A language (to be selected from the list under Part II) on a lower standard than at present laid down for Part II, if the language chosen under Part III is different from that taken under Part II, <i>or</i> on a higher standard if the same language is taken under Part III. |
| Group C | . | { |
| | | Economic History of England and Economic Geography. Elements of Commerce and Account- ancy. Agriculture. Electrical Engineering. Mechanical Engineering. Surveying. Drawing. Indian Music. Western Music. Architecture. Household Art. |

The subjects prescribed for the Preliminary Division of the Examination for any *one* of the following Oriental Titles:—

Siromani.
Vidvan.
Afzal-ul-Ulama.
Junshi-i-Fazil.
Adib-i-Fazil.
Tabib-i-Kamil.
Afzal-ul-Atibba.
Malpan.
Soppar:

Group D* ...

and a paper on Composition or Translation in the selected Language (Composition in the case of Indian Languages and Translation in the case of Classical Languages.)

Any candidate, who is a member of the Madras University Officers' Training Corps, shall have the option of taking Military Science—Certificate 'A'—in place of one of optional subjects or as an additional subject under Part III.

Candidates offering Military Science as an additional subject shall be deemed to have passed the examination in Part III if they pass in two of the three optional subjects and in Military Science.

Note:—Candidates desirous of proceeding to a Professional or Honours Degree Course shall satisfy the requirements laid down for admission to these courses, and may take Military Science—Certificate 'A'—as an additional subject.

The Syndicate shall have power to permit candidates who either have completed their Intermediate or their B.A. with Parts II and III in the Intermediate in Groups other than Group D of the Intermediate and desire to appear for the B.O.L. (Bachelor of Oriental Learning) to sit for the Intermediate Examination in Group D under Part III without the production of the prescribed certificates of attendance at a college approved by the University.

* To be taken by persons who desire to proceed to the B.O.L. (Pass or Honours) Degree.

Text-books or syllabuses shall be prescribed in the above subjects.

Scheme of Examination. 3. The examination shall consist of three parts.

(a) *Part I—English*—There shall be three papers.
Maximum Marks.

Paper 1.—Shakespeare and Poetry
(Prescribed books) 3 hours ... 100

The candidates shall not be
required to answer more
than five questions.

Paper 2.—Prose (Prescribed books)
3 hours ... 100

The candidates shall not be
required to answer more
than five questions.

Paper 3.—Composition 3 hours ... 100

The paper shall contain exercises designed to test the candidates' power to apply the principles studied in the course; in particular it shall contain (a) exercises in epitomizing and paraphrasing passages of prose and poetry which shall not be taken from any of the books prescribed for detailed study or for perusal and (b) subjects for two short essays drawn from the subject-matter of the books prescribed for perusal, as distinct from detailed study and from topics of general interest.

Note.—All papers in English shall be regarded as a test of the candidates' command of correct English and in valuation emphasis shall be placed upon this aspect of the work.

(b) *Part II—A Second Language.*

In each of the languages, there shall be two papers of three hours' duration each. Each paper shall carry a maximum of 100 marks.

The first paper shall contain questions on text-books prescribed for detailed study, grammar and idiom. The second paper shall contain in the case of classical languages and foreign languages mentioned under Regulation 2 (Part II) questions on translation from the selected language into English, and *vice versa*, and in the case of the Indian languages mentioned under Regulation 2 (Part II) questions

on the books prescribed for non-detailed study, original composition, and translation from English into the selected Indian language.

Note.—The questions set in Indian languages for translation from English into the selected language and for original composition shall be common to all languages.

(c) *Part III—Optional Subjects.*

(i) Three subjects to be selected out of the three Groups A, B and C, or Group D mentioned in Regulation 2 (Part III) of this Chapter at the option of the candidate;

provided that a candidate who wishes to proceed to a Degree in Arts or Science shall be required to pass in *two at least* of the optional subjects included in Group A or Group B;

provided that a candidate who has passed in the two commercial subjects under Group C may proceed to the B.A. Degree in Group (iv-b) Economics and History; and a candidate who has passed in two Fine Arts subjects, including Indian Music under Group C, may proceed to the B.A. Degree in Group (vi) Indian Music;

provided further that a candidate who wishes to proceed to the Degrees in Oriental Learning (B.O.L. Pass and Honours) shall be required to pass in Group D;

provided also that a candidate who has passed in Group D of the Intermediate Examination may proceed to the B.A. Degree in Groups (iii-a), (iii-b), (iv-a), (iv-b), (iv-c), (iv-d) and (v) or the B.A. (Honours) Degree in Branches II to XIII.

The scheme of examination in Military Science—Certificate 'A'—of the Madras University Officers' Training Corps shall be as laid down in the syllabus (*vide Appendix II*).

(ii) Two papers shall be set in each subject in Groups A, B and C, and each paper shall carry a maximum of 75 marks.

In Group D, there shall be seven papers. The first paper shall be on Composition or Translation of two hours' duration carrying 50 marks. For the remaining six papers, the maximum marks and the duration thereof shall be the

same as for the Preliminary Part of the Oriental Title Examination. These seven papers shall together correspond to Parts II and III of the Intermediate Examination.

In the case of Agriculture, Surveying, Drawing, Indian Music and Western Music, the second paper shall be the practical examination in the subject.

Each paper shall be of two hours' duration, except in the case of (1) languages, in which the two papers shall be of three hours' duration each, and as detailed under Part II, (2) Indian Music and Western Music, where the first paper shall be of three hours' duration, (3) Mathematics, Physics, Chemistry, Natural Science, Geography, Psychology, Logic, Indian History, Ancient History, Modern History and Islamic History in which the two papers shall be of two-and-a-half hours' duration each, and (4) Household Art in which the first paper shall be of three hours' duration and the second paper of $2\frac{1}{2}$ hours' duration.

4. No candidate shall be admitted to the examination unless he has been registered as a Matriculate of this University, and has undergone the prescribed course in a Constituent or an Affiliated College for a period of not less than two academic years or six terms.

5. A candidate appearing for the examination on the first occasion shall apply for all the three Parts of the examination, and thereafter may appear for any part or parts of the examination in which he has not already secured passing marks at a previous examination.

6. A candidate shall be declared to have passed the examination if he obtains not less than (1) 35 per cent. of the marks in Part I, English, (2) 35 per cent. of the marks in Part II, a second language, and (3) 35 per cent. in each of the three subjects in Groups A, B and C and 35 per cent. in each division of Group D selected under Part III, while in Indian Music and Western Music he shall also be required to secure not less than 35 per cent. of the marks in the practical examination.

A candidate offering Military Science—Certificate 'A'—of the Madras University Officers' Training Corps either as an optional subject or as an additional subject shall be required to sit for the examination conducted by the Army, and to secure a pass therein, according to the standard laid down by the Army from time to time :

Provided that until such time as provision is made for holding the examination for Certificate 'A' or 'B' twice yearly, it shall be open to a candidate who has gained pass marks in either Certificate 'A' or 'B' to claim credit as having already passed in the respective Certificate as a subject for the Intermediate Examination and to appear only in the remaining subjects for the Intermediate Examination at the next or any succeeding examination.

Candidates who fail to obtain a pass in Military Science—Certificate 'A'—and desire to complete the Intermediate Examination with another optional subject under Part III in place of Military Science—Certificate 'A'—shall be permitted to do so without further attendance in the new optional subject provided they pass the examination in accordance with the conditions prescribed in the Regulations.

All the other candidates shall be declared to have failed in the examination.

A candidate may pass the whole examination by passing in the several parts at the same or at different examinations.

A candidate shall be declared to have passed in any part of the examination on his obtaining in that part the minimum marks prescribed above.

Pass in Parts.

NOTE.—The divisions for the purpose of Group D shall be (1) Composition or Translation ; and (2) the divisions prescribed in the Preliminary Part of the Oriental Title Examination.

7. Candidates who pass in all the parts at the same examination, and who obtain not less than 50 per cent. of the total marks shall be placed in the first class. All the other successful candidates shall be placed in the second class.

Classification of successful candidates.

Marks required for distinction in subjects. Candidates who pass in all the parts at the same examination, and obtain not less than 60 per cent. of the marks in any subject shall be declared to have gained distinction in that subject.

Classification of candidates successful in Parts. Candidates who pass the whole examination by passing in the several parts at separate examinations shall be placed in a separate list.

Passed Intermediate—how to qualify in additional subjects. A candidate who has passed the Intermediate Examination in Arts and Science shall be permitted to appear again for the examination in a new subject or subjects under Part III, provided he has undergone the course of study prescribed in the new subject or subjects selected and has attended a college for a further period of not less than one year. He shall be declared to have passed the examination if he obtains not less than 35 per cent. of the marks in each new subject in Groups A, B and C, and 35 per cent. in each division of Group D.

In the case of a successful candidate, a certificate to the effect that he has passed the Intermediate Examination in Arts and Science with the specified additional subject or subjects shall be issued.

Transitory provision. 9. Notwithstanding anything contained in Regulation 4 *supra*, candidates who have undergone the prescribed course of study for the old F.A. Examination or the Intermediate Examination in Arts and Science under the Regulations (or Bye-laws) in force prior to 1927-28, and are qualified to sit for the examination, shall be permitted to appear for the Intermediate Examination in Arts and Science under the existing Regulations without producing fresh certificates of attendance. Such candidates shall appear for the three parts of the examination, provided that candidates who have passed the Intermediate Examination in Arts and Science under the Old Regulations in any part shall be deemed to have passed in the corresponding part or parts under the existing Regulations, *viz.*, Part I corresponding to Parts I and II, and Part II to Part III. Such candidates will be permitted to

take any three of the subjects prescribed under Part III (optional subjects) and taken by candidates appearing through a Constituent or an Affiliated College under the existing Regulations.

Candidates desiring to appear under this Regulation shall obtain the previous permission of the Syndicate to sit for the examination by application made to the Registrar on or before the 1st November or 1st April preceding the March or September examination, as the case may be. Permission once granted shall be permanent.

10. Candidates who appear in January—February 1944 either for Certificate 'A' or 'B' shall be given the exemptions as laid down in Resolution 5-A of the Academic Council dated the 18th February 1943. Such candidates who have been exempted for Certificate 'A' will not, however, be eligible for any further exemption for the same examination, *viz.*, the Intermediate, B.A. or B.Sc. Should they however pursue their studies of Military Science under the revised Regulations, and apply for Certificate 'B' during their academic course of study for the B.A. or B.Sc., the exemptions under the revised Regulations will be applicable to them also.

**Transitory
provision—
Certificates
A and B of
U.O.T.C.**

Candidates offering Military Science as an additional subject shall be deemed to have passed the examination in Part III if they pass in two of the three optional subjects and in Military Science.

NOTE.—The Regulations governing Certificate 'B' adopted by the Academic Council at its meeting held on the 18th February 1943, shall cease to be in force from July 1944.

CHAPTER XLIII.

Degree of Bachelor of Arts.

Admission to B.A. Examination—conditions. 1. Candidates for the B.A. Degree Examination shall be required to have passed the Intermediate Examination in Arts and Science of this University, and to have satisfied the requirements under (i) of (c) Part III of Regulation 3 of the Chapter *re* Intermediate Examination in Arts and Science, or an examination accepted by the Syndicate as equivalent thereto under conditions, if any, prescribed, and to have subsequently undergone a prescribed course of study in a Constituent or an Affiliated College for a period of not less than two academic years or six terms.

Course of Study. 2. The course of study shall comprise the following subjects, according to a syllabus to be prescribed from time to time:—

Part I—English.

The course shall comprise:—

- (a) The study in detail of certain prescribed books. The works prescribed for detailed study shall consist of the following:—
 - (1) Shakespeare: (two plays).
 - (2) Modern Poetry: from Milton to the present day, about 2,000 lines.
 - (3) Modern Prose: from Addison to the present day, not more than three books.
- (b) Composition on matter supplied by books prescribed for perusal. The works prescribed for perusal as a basis for composition shall consist of not more than three books which may be novels, essays or works of general value.

Note:—All papers in English—Part I—shall be regarded as a test of a candidate's command of correct English and in valuation greater emphasis shall be placed upon this aspect of the work than upon knowledge of the substance of the texts.

Any candidate, who is a member of the Madras University Officers' Training Corps, and has passed in Military Science—Certificate 'A'—shall have the option of taking Military Science—Certificate 'B'—in place of '(1) Shakespeare' and '(2) Modern Poetry', or as an additional subject under Part I (for syllabus and text-books *vide* **Appendix III**).

Candidates offering Military Science as an additional subject shall be deemed to have passed the examination in Part I if they pass in all the papers except those for which Military Science may be offered as an alternative, and in Military Science.

Note:—Candidates desirous of proceeding to a Professional or Honours Degree Course shall satisfy the requirements laid down for admission to these courses and may take Military Science—Certificate 'B'—as an additional subject.

Part II—A Second Language.

The course shall comprise the study of any one of the following Classical or Modern (Foreign or Indian) Languages, at the option of the candidate, according to a syllabus or text-books or both to be prescribed from time to time:—

| | | | |
|---------------|-------------|------------|------------|
| (a) Classical | { | Sanskrit. | Arabic. |
| | | Greek. | Persian. |
| | | Latin. | Hebrew. |
| | | | Syriac. |
| | | | German. |
| | (1) Foreign | French. | |
| (b) Modern | { | Tamil. | Oriya. |
| | | Telugu. | Hindi. |
| | | Kannada. | Bengali. |
| | | Malayalam. | Burmese. |
| | | Urdu. | Sinhalese. |
| | | Marathi. | |
| | (2) Indian | | |

Part III—Optional Subjects.

One of the following groups:—

- (i-a) Mathematics.
- (i-b) Mathematics.
- (i-c) Statistics.

- (ii) Any two of the following subjects, one of which shall be on the main standard, and the other on the subsidiary standard:—

| | |
|--------------|-------------------------|
| Mathematics. | Geology. |
| Physics. | Physiology. |
| Chemistry. | Mechanical Engineering. |
| Botany. | Electrical Engineering. |
| Zoology. | Anthropology: |

Course of Study
—(contd.)

provided that Mechanical Engineering or Electrical Engineering shall be taken only as a Subsidiary subject by the candidates taking Physics as their Main subject;

provided that Anthropology shall be taken only as a Subsidiary subject by the candidates taking Botany, Zoology or Geology as their Main subject.

- (iii-a) Philosophy.
- (iii-b) Philosophy.
- (iv-a) History and Economics.
- (iv-b) Economics and History.
- (iv-c) Politics and History.
- (iv-d) Islamic History and Culture.
- (v) Languages other than English.
- (vi) Indian Music.
- (vii) Western Music.
- (viii) Geography.
- (ix) Home Science :

provided, however, only those who have taken Chemistry, either Physics or Biology, and one other subject under Part III of the Intermediate Examination of this University, or the corresponding subjects of an examination of some other University accepted by the Syndicate as equivalent thereto, shall be permitted to take *Home Science* under Part III of the course.

In each subject under Part III, a syllabus or text-books to indicate the scope of the subject shall be prescribed (for Syllabus *vide* **Appendix III**).

The course of study shall be as follows :—

Group (i-a)—Mathematics.

The course shall comprise the study of (1) Algebra and Trigonometry, (2) Calculus, (3) Geometry (Pure and Analytical), (4) Dynamics, (5) Astronomy. (6) Hydrostatics, Properties of Matter and Heat.

Group (i-b)—Mathematics.

The course shall comprise the study of (1) Algebra and Trigonometry, (2) Calculus, (3) Geometry (Pure and Analytical), (4) Dynamics, and any two of the following subjects :—

- (1) Astronomy.
- (2) Elements of Statistics.
- (3) Economics.
- (4) Pure Geometry.
- (5) Analysis.

Group (i-c)—Statistics.

The course shall comprise the study of (1) Geometry (Pure and Analytical), (2) Algebra and Trigonometry, (3) Calculus, (4) Statistical Methods (Measures of Central Tendency—Measures of Dispersion—Distribution of the Variable—Curve Fitting—Two Variables—Sampling), and (5) Elementary Theory of Probability and the Calculus of Finite Differences.

*Group (ii)**Mathematics—Main.*

The course shall comprise the study of (1) Algebra and Trigonometry, (2) Calculus, (3) Geometry (Pure and Analytical), and (4) Dynamics.

Course of Study
—(contd.)

Mathematics—Subsidiary.

The course shall comprise the study of the following subjects: Algebra, Trigonometry, Analytical Geometry, and Calculus.

Physics—Main.

The course shall comprise the study of the following subjects :—

Dynamics, Properties of Matter and Hydrostatics, Heat and Light, Electricity, Magnetism and Sound.

Physics—Subsidiary.

The course shall comprise the study of the following subjects :—

Properties of Matter, Hydrostatics, Heat, Light, Electricity and Magnetism.

Chemistry—Main.

The course shall comprise the study of the following subjects:—

General, Theoretical and Physical Chemistry,
Inorganic Chemistry and Organic Chemistry.

Chemistry—Subsidiary.

The course shall be of a less advanced character than that for candidates taking Chemistry of the main standard.

Botany, Zoology, Geology and Physiology—as a Main and a Subsidiary subject.

Course of Study The course shall comprise the study
—(*Contd.*) of the subjects detailed in the syllabuses and the knowledge required of the candidates for the examination in the subsidiary subject shall be less detailed than that required for a pass in the main subject.

Mechanical or Electrical Engineering shall be taken only as a subsidiary subject to Physics. The course of study shall be as detailed in the syllabus.

Anthropology shall be taken only as a subsidiary subject to Botany, Zoology or Geology. The course of study shall be as detailed in the syllabus.

Note :—The courses of study and examinations in all the subjects on the subsidiary standard shall be common for both B.A., B.Sc. and B.Sc. (Honours) Degree Examinations.

Group (iii-a)—Philosophy.

Course of Study The course shall comprise the study
—(*contd.*) of the following subjects :—

1. Psychology.
2. Ethics.
3. European Logic and Theory of Knowledge or Political Philosophy.
4. Indian Logic or an Indian Philosophical Classic (to be prescribed from time to time).
5. A European Philosophical Classic (to be prescribed from time to time).

The text-books for the various subjects shall be as given in **Appendix III.**

*Group (iii-b)—Philosophy.***Course of Study**
—(contd.)

The course shall comprise the study of the following subjects :—

1. Psychology.
2. Ethics.
3. Politics (the paper will comprise two Parts—Part I consisting of questions bearing on Political Theory and Part II on Comparative Politics—candidates being expected to attempt at least one question from each Part).
4. Outlines of European History or Constitutional History of Great Britain and Ireland.
5. General Indian History.

The syllabuses and papers for 1 and 2 will be the same as for Group (iii-a)—Philosophy—and the syllabuses and papers for 3, 4 and 5 will be the same as for Group (iv-a)—History and Economics.

Group (iv-a)—History and Economics.

The course shall comprise the study of the following subjects :—

- (1) General Indian History.
- (2) Constitutional History of Great Britain and Ireland.
- (3) Outlines of European History.
- (4) Economics—General
- (5) Politics.

In each of the above subjects, a syllabus for the course of study or text-books to indicate the scope of the subject or both shall be prescribed.

Group (iv-b)—Economics and History.

The course shall comprise the study of the following subjects :—

- (1) Economics—General [in common with Group (iv-a).]
- (2) Economics—Special.
- (3) Modern Economic History of England and India (from 1600 A.D.)

Course of Study
—(contd.)

(4) General Indian History [in common with Group (iv-a)].

(5) Any one of the following three subjects :—

| | |
|--|--------------------------------|
| Constitutional History of Great Britain and Ireland. | } in common with Group (iv-a). |
| Politics. | |
| Outlines of European History. | |

The paper, "Economics—Special" shall consist of two parts (a) Public Finance and (b) Rural Economics, both with special reference to India. Public Finance will include the economic functions of the State, the raising and spending of taxes and public loans and the regulation of tariffs. Rural Economics will include the organisation and financing of Agriculture, the Co-operative Movement and other allied problems.

Group (iv-c)—Politics and History.

The course shall comprise the study of the following subjects :—

| | | |
|-------------------------------------|---|--------------------------------|
| Course of Study —(contd.) | (1) General Indian History. | } in common with Group (iv-a). |
| | (2) Outlines of European History. | |
| | (3) Economics—General. | |
| | (4) Political Theory (including the study of a classic to be prescribed from time to time). | |
| | (5) Political Organisation. | |

In each of the above subjects, a syllabus for the course of study or text-books to indicate the scope of the subject or both shall be prescribed.

Group (iv-d)—Islamic History and Culture.

The course shall comprise the study of the following subjects :—

| | | |
|-------------------------------------|---|--------------------------------|
| Course of Study —(contd.) | (1) General History of Islam. | |
| | (2) Civilization and Culture of Islam. | |
| | (3) History of India with reference to the role of Islam. | |
| | (4) Politics. | } in common with Group (iv-a). |
| | (5) Economics—General. | |

The syllabuses for the subjects and text-books, if any, shall be as prescribed in **Appendix III.**

Group (v)—Languages other than English.

Candidates shall select any one of the following languages, which shall be taken in conjunction with the cognate subject or related language specified against each language.

| <i>Selected Language</i> | <i>Cognate Subject or Related Language.</i> |
|--------------------------------------|--|
| Sanskrit ... | Early Indian History. |
| Persian or Arabic... | Early Muslim History. |
| Urdu ... | Indian History—Muslim Period <i>or</i> Arabic <i>or</i> Persian. |
| Tamil, Telugu, Kannada or Malayalam. | Early South Indian History <i>or</i> Sanskrit |
| Marathi . | History of the Marathas <i>or</i> Sanskrit. |
| Hindi . | Sanskrit <i>or</i> Urdu <i>or</i> Indian History—Muslim Period. |
| Oriya . | Early History of Orissa <i>or</i> Sanskrit. |
| Greek or Latin . | A Special Period of Greek <i>or</i> Roman History respectively. |
| German or French. | A Special Period of Modern European History. |
| Hebrew | History of the Jews. |
| Syriac | History of the Syrians. |

The course of study in the several languages and the related subjects shall be in accordance with a syllabus or text-books to be prescribed from time to time.

Group (vi)—Indian Music.

The course of study shall be in accordance with the syllabus as given in **Appendix III.**

Group (vii)—Western Music.

The course of study shall be in accordance with the syllabus as given in **Appendix III.**

Group (viii)—Geography.

The course shall comprise the study of the following subjects :—

- (i) Regional Geography of India (in detail).
- (ii) General Regional Geography of the World.
- (iii) Physical Basis of Geography.
- (iv) Practical Geography.

Course of Study (v) & (vi) Any *two* of the following subjects :—
—(contd.)

- (a) Economic Geography.
- (b) Historical and Political Geography.
- (c) Anthropeo-Geography.
- (d) Plant and Animal Geography (Bio-Geography).

The syllabuses for the above subjects shall be prescribed from time to time.

Group (ix)—Home Science.

The course shall comprise the study of the following subjects:—

- (1) Household Economics.
- (2) Bacteriology and Hygiene.
- (3) Physiology and Nutrition.

Course of Study (4) Applied Physical Science.
—(contd.)

The syllabuses for the subjects and text-books, if any, shall be as prescribed in **Appendix III.**

Scheme of Examination—
Part I.

3. The scheme of Examination shall be as follows:—

Part I—English.

There shall be four papers each of three hours' duration, carrying a maximum of 100 marks each.

| | Hours. | Marks. |
|------------------|--------|--------|
| 1. Shakespeare | 3 | 100 |
| 2. Modern Poetry | 3 | 100 |
| 3. Modern Prose | 3 | 100 |
| 4. Composition | 3 | 100 |

The scheme of examination in Military Science—Certificate 'B'—of the Madras University Officers' Training Corps shall be as laid down in the syllabus (*vide* Appendix III).

Part II.—A Second Language.

**Scheme of
Examination—
Part II.**

In the selected language, there shall be two papers each of three hours' duration, carrying a maximum of 100 marks each.

| | Hours. | Marks. |
|----------|--------|--------|
| Paper I | ... 3 | 100 |
| Paper II | ... 3 | 100 |

Each paper shall comprise questions as detailed below:—

CLASSICAL LANGUAGES.

Sanskrit.—The first paper shall relate to the prescribed text-books and grammar taught with reference to them. The second paper shall consist of three parts, the first part consisting of Sanskrit passages partly from the text-books and partly from passages not contained in the text-books for translation into English, the second part consisting of a passage or passages in English for translation into Sanskrit and the third part relating to the History of Sanskrit Literature omitting the History of the Vedic period and of technical literature (such as Medicine, Astronomy, Astrology, Mathematics and systems of Philosophy).

Greek and Latin.—The first paper shall consist of passages for translation from the text-books, questions on idiom and grammar, and questions on the subject-matter of the text-books. The second paper shall consist of a piece of English Prose for translation into Greek and Latin and passages not contained in the text-books for translation into English.

Hebrew, Syriac, Arabic and Persian.—The first paper shall consist of questions on (1) Text-books, (2) Grammar, and (3) Rhetoric and Prosody of an elementary nature, and the second paper shall consist of questions on translation from the selected language into English and *vice versa* and on the History of Literature.

FOREIGN LANGUAGES.

French and German.—The first paper shall consist of passages for translation from the text-books, questions on

idiom and grammar, and questions on the subject-matter of the text-books. The second paper shall consist of a subject for composition chosen from the prescribed books, and unseen passages shall be set for translation from French or German into English and *vice versa*.

INDIAN LANGUAGES.

The first paper shall comprise questions:

- Urdu*.—On (1) Prescribed text-books, (2) Grammar, (3) Rhetoric and Prosody of an elementary nature, and (4) on the History of Literature.

All other Languages.—On prescribed text-books in Poetry and Prose, Grammar and History of Language and Literature.

The second paper in all languages shall comprise:

- (1) a passage or passages in English for translation into the selected language;
- (2) a subject for essay having reference to modern thought;
- (3) a subject for essay based on books prescribed for non-detailed study.

Note.—One hour shall ordinarily be assigned for translation question and one hour for each part of composition.

Part III --Optional Subjects.

Group (i-a) Mathematics.—The examination shall consist of six papers (1) Algebra and Trigonometry, (2) Geometry (Pure and Analytical), (3) Dynamics, (4) Calculus, (5) Astronomy and (6) Hydrostatics. Properties of Matter and Heat, as follows:—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Geometry | 3 | 90 |
| 2. Algebra and Trigonometry | 3 | 90 |
| 3. Dynamics | 2 | 75 |
| 4. Calculus | 2 | 70 |
| 5. Astronomy | 2 | 80 |
| 6. Hydrostatics, Properties of Matter and Heat | 3 | 100 |
| Total | ... | 500 |

Group (i-b) Mathematics.—The examination shall consist of four papers in the compulsory subjects*—Geometry (Pure and Analytical), Algebra and Trigonometry, Dynamics, and Calculus—and one paper in each of the two optional subjects selected,† as follows:—

| | | Hours. | Marks. |
|-------|--------------------------|--------|--------|
| 1. | Geometry | ... 3 | 90 |
| 2. | Algebra and Trigonometry | ... 3 | 90 |
| 3. | Dynamics | ... 2 | 70 |
| 4. | Calculus | ... 2 | 70 |
| 5. | Optional subject I† | ... 3 | 90 |
| 6. | Optional subject II† | ... 3 | 90 |
| Total | | | 500 |

Group (i-c)—Statistics.

Scheme of Examination— The examination shall consist of five papers in theory and one practical examination.
Gr. (i-c)—Statistics.

| | | Hours. | Marks. |
|-------|---------------------------|--------|--------|
| 1. | †Geometry | 3 | 80 |
| 2. | †Algebra and Trigonometry | 3 | 80 |
| 3. | †Calculus | 2 | 70 |
| 4. | Statistics I | 3 | 90 |
| 5. | Statistics II | 3 | 90 |
| | Practical Examination | 3 | 70 |
| | Note-books | | 20 |
| Total | | | 500 |

* *Note.*—The question papers in the above four subjects shall be common for the candidates in Groups (i-a), (i-b) and (ii).

† Two out of the following:—Astronomy, Pure Geometry, Elements of Statistics, Analysis and Economics.

‡ Papers common to all candidates in Groups (i-a), (i-b), (i-c) and (ii).

At the practical examination candidates must submit to the Examiner their laboratory note-books (duly certified by their Lecturers as *bona fide* records of work done by the candidates).

Group (ii) Mathematics Main.

The examination shall consist of four papers*—
Scheme of Geometry (Pure and Analytical),
Examination— Algebra and Trigonometry, Dynamics
Gr. (ii)— and Calculus as under Group (i-b)
Mathematics. above.

| | Hours. | Marks. |
|-----------------------------|--------|-----------|
| 1. Geometry | 3 | 100 |
| 2. Algebra and Trigonometry | 3 | 100 |
| 3. Dynamics | 2 | 75 |
| 4. Calculus | 2 | 75 |
| Total | | <hr/> 350 |

Mathematics—Subsidiary.

The examination shall consist of two papers of three hours' duration each as follows:—

| | Hours. | Marks. |
|--|--------|-----------|
| Paper I (Algebra and Calculus) | | 75 |
| Paper II (Trigonometry and Analytical Geometry) | | <hr/> 75 |
| Total | | <hr/> 150 |

The problems set for the subsidiary papers will in general be of a lower standard than for the main papers in the same subjects and will, as far as possible, relate to scientific topics.

* *Note.*—The question papers in the above four subjects shall be common for the candidates in Groups (i-a), (i-b) and (i-c).

Physics—Main.

The examination in theory shall consist of four papers of three hours' duration each. There shall be a practical examination in which two exercises shall be set. The scheme of examination shall be as follows:—

**Scheme of
Examination—
Gr. (ii)—
Physics.**

| | Hours. | Marks. |
|-----------------------------------|--------|--------|
| 1. Dynamics and Hydrostatics ... | 3 | 60 |
| 2. Properties of Matter and Heat. | 3 | 60 |
| 3. Light and Sound ... | 3 | 60 |
| 4. Electricity and Magnetism ... | 3 | 60 |
| Practical examination ... | 6 | 90 |
| Laboratory note-books ... | | 20 |
| Total | | 350 |

At the Practical Examination candidates must submit to the Examiner or Examiners their laboratory note-books, duly certified by their Professors or Lecturers as *bona fide* records of work done by the candidates.

Physics—Subsidiary.

The examination shall consist of two papers of two hours' duration each and a practical examination of three hours' duration.

| | Hours. | Marks. |
|---|--------|--------|
| 1. Hydrostatics, Properties of Matter and Heat ... | 2 | 50 |
| 2. Light, Electricity and Magne- tism ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total | | 150 |

Chemistry—Main.

There shall be a written examination of three papers of three hours' duration each and a practical examination of two papers of six hours' and three hours' duration respectively.

**Scheme of
Examination—
Gr. (ii)—
Chemistry.**

| | Hours. | Marks. |
|---|--------|--------|
| 1. General, Theoretical and Physical Chemistry | 3 | 80 |
| 2. Inorganic Chemistry | 3 | 80 |
| 3. Organic Chemistry | 3 | 80 |
| Practical Examination I (Inorganic Chemistry) | | 80 |
| Practical Examination II (Organic Chemistry) | 3 | 30 |
| Total ... | | 350 |

At the Practical Examination candidates must submit to the Examiner or Examiners their laboratory note-books, duly certified by their Professors or Lecturers as *bona fide* records of work done by the candidates. No special marks shall be assigned to the note-books, but the Examiners shall take into consideration the laboratory work when judging the practical examination results.

Candidates who fail to submit properly certified note-books of their practical work will be debarred from the practical examinations.

Chemistry—Subsidiary.

The examination shall be of a less advanced character than that for candidates taking Chemistry of the main standard. There shall be a written examination of two papers and a practical examination.

| | Hours. | Marks. |
|---------------------------------|--------|------------|
| General and Inorganic Chemistry | 3 | 60 |
| Organic Chemistry ... | 2 | 40 |
| Practical Examination ... | 3 | 50 |
| Total ... | | <u>150</u> |

The practical examination shall be held to test the candidate's ability to make experiments illustrating the subjects included in the course, identifying the more common metals and their compounds (containing not more than one acid and one base) and making simple volumetric analysis with standard solution of acids, alkalis, potassium permanganate, and of iodine and sodium thiosulphate.

Botany, Zoology, Geology and Physiology--as a Main and a Subsidiary subject.

The examination shall consist of—

1. In the Main subject—Two papers of three hours' duration each and two Practical Examinations of three hours' duration each.

2. In the Subsidiary subject—Two papers of two hours' duration each and one Practical Examination of three hours' duration.

Scheme of Examination— The scheme of examination shall be as follows:—
Gr. (ii)—
Botany. *Botany—Main.*

| | Hours. | Marks. |
|-------------------------------|--------|-----------|
| Written Examination Paper I— | | |
| Thallophytes, Bryophytes, | | |
| Pteridophytes, Gymnosperms | | |
| and Histology ... | | 80 |
| Written Examination Paper II— | | |
| Morphology and Taxonomy of | | |
| Angiosperms, Plant Physiology | | |
| and General Principles . | 3 | 80 |
| Practical Examination I . | 3 | 75 |
| Practical Examination II .. | 3 | 75 |
| Laboratory note-books .. | | 20 |
| Collections .. | | 20 |
| Total ... | | <hr/> 350 |

At the Practical Examination candidates must submit to the Examiner or Examiners their laboratory note-books, duly certified by their Professors or Lecturers as *bona fide* records of work done by the candidates.

Botany—Subsidiary.

| | Hours. | Marks. |
|--|--------|-----------|
| Written Examination Paper I— Thallophytes, Bryophytes, Pteridophytes, Gymnosperms and Histology ... | 2 | 50 |
| Written Examination Paper II— Morphology and Taxonomy of Angiosperms, Plant Physiology and General Principles ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total ... | | <hr/> 150 |

**Scheme of
Examination—
Gr. (ii)—
Zoology.**

Zoology—Main.

| | Hours. | Marks. |
|--|--------|-----------|
| Written Examination Paper I— Invertebrata ... | 3 | 100 |
| Written Examination Paper II— Chordata ... | 3 | 100 |
| Practical Examination I ... | 3 | 60 |
| Practical Examination II ... | 3 | 60 |
| Laboratory note-books ... | | 30 |
| Total ... | | <hr/> 350 |

At the Practical Examination candidates must submit to the Examiner or Examiners their laboratory note-books, duly certified by their Professors or Lecturers as *bona fide* records of work done by the candidates.

Zoology—Subsidiary.

| | Hours. | Marks. |
|--|--------|-----------|
| Written Examination Paper I— Invertebrata ... | 2 | 50 |
| Written Examination Paper II— Chordata ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total ... | | <hr/> 150 |

**Scheme of
Examination—
Gr. (ii)—
Geology.**

Geology—Main.

| | Hours. | Marks |
|-------------------------------|--------|-------|
| Written Examination Paper I— | | |
| All divisions other than | | |
| Mineralogy and Petrology ... | 3 | 80 |
| Written Examination Paper II— | | |
| Mineralogy and Petrology ... | 3 | 80 |
| Practical Examination I ... | 3 | 75 |
| Practical Examination II ... | 3 | 75 |
| Laboratory note-books ... | | 20 |
| Collections ... | | 20 |
| Total ... | | 350 |

At the Practical Examination candidates must submit to the Examiner or Examiners their laboratory note-books, duly certified by their Professors or Lecturers as *bona fide* records of work done by the candidates.

Geology—Subsidiary.

| | Hours. | Marks. |
|-----------------------------------|--------|--------|
| Written Examination Paper I— | | |
| All divisions other than Mineral- | | |
| ogy and Petrology ... | | 50 |
| Written Examination Paper II— | | |
| Mineralogy and Petrology ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total ... | | 150 |

**Scheme of
Examination—
Gr. (ii)—
Physiology.**

Physiology—Main.

| | Hours. | Marks. |
|-------------------------------|--------|--------|
| Written Examination Paper I. | 3 | 80 |
| Written Examination Paper II. | 3 | 80 |
| Practical Examination I . | 3 | 75 |
| Practical Examination II . | 3 | 75 |
| Laboratory note-books | | 40 |
| Total | | 350 |

At the Practical Examination candidates must submit to the Examiner or Examiners their laboratory note-books, duly certified by their Professors or Lecturers as *bona fide* records of work done by the candidates.

Physiology—Subsidiary.

| | Hours. | Marks |
|-------------------------------|--------|-------|
| Written Examination Paper I. | 2 | 50 |
| Written Examination Paper II. | 2 | 50 |
| Practical Examination | 3 | 50 |
| Total | | 150 |

*Mechanical Engineering or Electrical Engineering
(to be taken as a Subsidiary subject to Physics).*

Mechanical Engineering—Subsidiary.

**Scheme of
Examination—
Gr. (ii)—
Mechanical
Engineering.**

The examination shall be both written and practical and the scheme of examination shall be as follows:—

| | Hours. | Marks. |
|---|--------|--------|
| Written Examination Paper I— Machine Design | 2 | 50 |
| Written Examination Paper II— Heat Engines, Steam Engines, Fuels and Boilers, and Internal Combustion Engines | 2 | 50 |
| Practical Examination | 3 | 50 |
| Total | | 150 |

Electrical Engineering—Subsidiary.

**Scheme of
Examination—
Gr. (ii)—
Electrical
Engineering.**

The examination shall be both written and practical and the scheme of examination shall be as follows:—

| | Hours. | Marks. |
|---|--------|-----------|
| Written Examination Paper I— Direct Current (<i>excluding Storage Batteries and Illumin- ation</i>) | | 50 |
| Written Examination Paper II— Alternating Current and Stor- age Batteries and Illumination | 2 | 50 |
| Practical Examination | 3 | 50 |
| Total | | <hr/> 150 |

Anthropology—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers:—

| | Hours. | Marks. |
|---|--------|-----------|
| Written Examination Paper I (Phy- sical Anthropology and Prehis- tory) ... | | 50 |
| Scheme of Examination— Gr. (ii)— Anthropology. Written Examination * Paper II (Social Anthro- pology and Material Culture) ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total | | <hr/> 150 |

*Group (iii-a)—Philosophy.***Scheme of
Examination—
Gr. (iii-a)—
Philosophy.**

The examination shall consist of
five papers as follows:—

| | | | Hours. | Marks. |
|-------|--|--------|--------|--------|
| 1. | Psychology | ... .. | 3 | 100 |
| 2. | Ethics | ... .. |  | 100 |
| 3. | European Logic and Theory of Knowledge or Political Philosophy | ... .. |  | 100 |
| 4. | Indian Logic or An Indian Philosophical Classic | ... .. |  | 100 |
| 5. | A European Philosophical Classic | ... .. | 3 | 100 |
| Total | | | | 500 |

*Group (iii-b)—Philosophy.***Scheme of
Examination—
Gr. (iii-b)—
Philosophy.**

The examination shall consist of five
papers as follows:—

| | | | Hours. | Marks. |
|-------|--|--------|--------|--------|
| 1. | Psychology | ... .. | 3 | 100 |
| 2. | Ethics | ... .. | 3 | 100 |
| 3. | Politics | ... .. | 3 | 100 |
| 4. | Outlines of European History or Constitutional History of Great Britain and Ireland... | ... .. | 3 | 100 |
| 5. | General Indian History | ... .. | 3 | 100 |
| Total | | | | 500 |

Group (iv-a)—History and Economics.

**Scheme of
Examination—
Gr. (iv-a)—
History &
Economics.**

There shall be five papers of three hours' duration each.

| | Hours. | Marks. |
|--|--------|--------|
| 1. Politics | 3 | 100 |
| 2. General Indian History ... | 3 | 100 |
| 3. Constitutional History of Great Britain and Ireland... | 3 | 100 |
| 4. Outlines of European History | 3 | 100 |
| 5. Economics—General ... | 3 | 100 |
| Total | | 500 |

Group (iv-b)—Economics and History.

**Scheme of
Examination—
Gr. (iv-b)—
Economics &
History.**

There shall be five papers of three hours' duration each as follows:—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Economics—General ... | 3 | 100 |
| 2. Economics—Special ... | 3 | 100 |
| 3. Modern Economic History of England and India (from 1600 A.D.) | 3 | 100 |
| 4. General Indian History ... | 3 | 100 |
| 5. Any one of the following:— Constitutional History of Great Britain and Ireland. | 3 | 100 |
| Politics | 3 | 100 |
| Outlines of European History | | 100 |
| Total (of 5 papers) | | 500 |

*Group (iv-c)—Politics and History.***Scheme of
Examination—
Gr. (iv-c)—
Politics and
History.**

There shall be five papers of three hours' duration each as follows:—

| | Hours. | Marks. |
|----------------------------------|--------|--------|
| 1. General Indian History ... | 3 | 100 |
| 2. Outlines of European History. | 3 | 100 |
| 3. Economics—General ... | 3 | 100 |
| 4. Political Theory ... | 3 | 100 |
| 5. Political Organization ... | 3 | 100 |
| Total ... | | 500 |

*Group (iv-d)—Islamic History and Culture.***Scheme of
Examination—
Gr. (iv-d)—
Islamic History
and Culture.**

There shall be five papers of three hours' duration each as follows:—

| | Hours. | Marks. |
|---|--------|--------|
| 1. General History of Islam ... | 3 | 100 |
| 2. Civilization and Culture of Islam ... | 3 | 100 |
| 3. History of India with reference to the role of Islam ... | 3 | 100 |
| 4. Politics ... | 3 | 100 |
| 5. Economics—General ... | 3 | 100 |
| Total ... | | 500 |

*Group (v)—Languages other than English.***Scheme of
Examination—
Gr. (v)—
Languages.**

The examination shall consist of six papers of three hours' duration each.

**Scheme of
Examination—
Gr. (v)—
Languages
—(contd.)**

The schemes of examination for the several languages shall be as follows:—

Sanskrit and Early Indian History.

| | Hours. | |
|---|--------|-----|
| 1. Books of the Early Period ... | 3 | 80 |
| 2. Books of the Later Period I ... | 3 | 80 |
| 3. Books of the Later Period II ... | 3 | 80 |
| 4. Grammar—Historical and Comparative ... | | 80 |
| 5. History of Sanskrit Literature ... | 3 | 80 |
| 6. Cognate Subject—Early Indian History ... | | 100 |
| Total ... | | 500 |

(i) *Urdu and Indian History (Muslim Period) or Arabic or Persian and (ii) Arabic or Persian and Early Muslim History.*

| | Hours. | Marks |
|---|--------|-------|
| 1. Prose Books ... | 3 | 80 |
| 2. Poetry Books ... | 3 | 80 |
| 3. Translation ... | 3 | 80 |
| 4. Grammar including Rhetoric and Prosody ... | 3 | 80 |
| 5. History of Language and Literature ... | 3 | 80 |
| 6. Cognate Subject/Related Language for (i)—Indian History—Muslim Period or Arabic or Persian ... | | |
| Cognate Subject for (ii)—Early Muslim History .. | | 100. |
| Total | | 500 |

Tamil, or Telugu, or Kannada, or Malayalam, or Oriya, or Marathi and a Cognate Subject or Sanskrit.

| Scheme of Examination— | | Hours. | Marks. |
|------------------------------------|--|--------|--------|
| Gr. (v)— Languages —(contd.) | 1. Set Books and History of Literature I. ... | 3 | 80 |
| | 2. Set Books and History of Literature II ... | 3 | 80 |
| | 3. History of Language and Grammar ... | 3 | 80 |
| | 4. Comparative Grammar— Dravidian or Gaurian ... | 3 | 80 |
| | 5. Composition ... | 3 | 80 |
| | 6. Cognate Subject— Early South Indian History History of Orissa History of the Marathas or Related Language—Sanskrit ... | | 100 |
| | Total | | 500 |
| | | | |
| | | | |
| | | | |

*Hindi and Sanskrit or Urdu or Indian History—
Muslim Period.*

| Scheme of Examination— | | Hours. | Marks. |
|------------------------------------|--|--------|--------|
| Gr. (v)— Languages —(contd.) | 1. Set Books in Poetry (Ancient and Modern) | 3 | 80 |
| | 2. Set Books in Prose and Drama. | 3 | 80 |
| | 3. History of Language and Literature ... | | |
| | 4. Grammar (Historical and Comparative) Rhetoric and Prosody ... | | 80 |
| | 5. Translation from English into Hindi and Composition ... | | 80 |
| | 6. Cognate Subject—Indian History—Muslim Period or Related Language—Sanskrit or Urdu ... | | 100 |
| | Total | | 500 |
| | | | |
| | | | |
| | | | |

Greek or Latin and Greek or Roman History.

| Scheme of Examination— Gr. (v)— Languages —(contd.) | | | Hours. | Marks. |
|---|----|---|--------|--------|
| | 1. | Set Books and History of Literature I. | 3 | 80 |
| | 2. | Set Books and History of Literature II ... | 3 | 80 |
| | 3. | Prose Composition ... | 3 | 80 |
| | 4. | Translation (from unprepared passages) ... | 3 | 80 |
| | 5. | Grammar ... | 3 | 80 |
| | 6. | Cognate Subject—Greek (Special Period) or Roman History ... | 3 | 100 |
| | | Total ... | | 500 |

French or German and Modern European History.

| Scheme of Examination— Gr. (v)— Languages —(contd.) | | | Hours. | Marks. |
|---|----|--|--------|--------|
| | 1. | Set Books and History of Literature I. | 3 | 80 |
| | 2. | Set Books and History of Literature II ... | 3 | 80 |
| | 3. | History of Language ... | 3 | 80 |
| | 4. | Composition ... | 3 | 80 |
| | 5. | Translation ... | 3 | 80 |
| | 6. | Cognate Subject—Modern European History ... | 3 | 100 |
| | | Total ... | | 500 |

Hebrew and History of the Jews.

| | | | | Hours. | Marks. |
|--|----|-------------------------------------|-----|--------|--------|
| Scheme of Examination— Gr. (v)— Languages —(contd.) | 1. | Set Books I | ... | 3 | 80 |
| | 2. | Set Books II | ... | 3 | 80 |
| | 3. | Translation | ... | 3 | 80 |
| | 4. | Grammar | ... | 3 | 80 |
| | 5. | History of Language and Literature | ... | 3 | 80 |
| | 6. | Cognate Subject—History of the Jews | ... | 3 | 100 |
| | | | | Total | 500 |

Syriac and History of the Syrians.

| | | | | Hours. | Marks |
|--|----|--|-----|--------|-------|
| Scheme of Examination— Gr. (v)— Languages —(contd.) | 1. | Set Books I | ... | 3 | 80 |
| | 2. | Set Books II | ... | 3 | 80 |
| | 3. | Translation | ... | 3 | 80 |
| | 4. | Grammar | ... | 3 | 80 |
| | 5. | History of Language and Literature | ... | 3 | 80 |
| | 6. | Cognate Subject—History of the Syrians | ... | 3 | 100 |
| | | | | Total | 500 |

Group (vi)—Indian Music.

Scheme of Examination— The scheme of examination shall be as follows:—
Gr. (vi)—
Indian Music.

| | | Hours. | Marks. |
|--------------------------|----|--------|--------|
| Theory Paper I | .. | 3 | 150 |
| Theory Paper II | .. | 3 | 150 |
| Practical Examination I | .. | 3 | 100 |
| Practical Examination II | .. | 3 | 100 |
| | | Total | 500 |

Group (vii)—Western Music.

Scheme of Examination— The scheme of examination shall be
Gr. (vii)— as follows:—
Western Music.

| | Hours. | Marks. |
|--------------------------|--------|-----------|
| Theory Paper I | 3 | 150 |
| Theory Paper II | 3 | 150 |
| Practical Examination I | 3 | 100 |
| Practical Examination II | 3 | 100 |
| Total ... | | <hr/> 500 |

Group (viii)—Geography.

Scheme of Examination— The examination shall be both
Gr. (viii)— written and practical and the scheme of
Geography. examination shall be as follows:—

| | Hours. | Marks. |
|---|--------|-----------|
| 1. Regional Geography of India | 3 | 80 |
| 2. General Regional Geography of the World ... | 3 | 80 |
| 3. Physical Basis of Geography | 3 | 80 |
| 4. and 5. Two out of the following:— | | |
| Economic Geography ... | 3 | 80 |
| Historical and Political Geography ... | 3 | 80 |
| Anthropo-Geography ... | 3 | 80 |
| Bio-Geography ... | 3 | 30 |
| Practical Geography ... | 3 | 80 |
| Practical Geography Note-books ... | | 20 |
| Total (of 5 papers, Practical Geography and Note books). ... | | <hr/> 500 |

Group (ix)—Home Science.

The examination shall be both written and practical in all subjects except Household Economics, where it shall be only written, and the scheme of examination shall be as follows:—

| | Hours. | Marks. |
|---|--------|--------|
| (1) Household Economics ... | 3 | 100 |
| (2) Bacteriology and Hygiene ... | 3 | 80 |
| Scheme of Examination— | | |
| Gr. (ix)— | | |
| Home Science. (3) Physiology and Nutrition ... | 3 | 80 |
| (4) Applied Physical Science ... | 3 | 80 |
| <i>Practical Examination—</i> | | |
| Bacteriology and Hygiene ... | 3 | 50 |
| Physiology and Nutrition ... | 3 | 50 |
| Applied Physical Science ... | 3 | 60 |
| Total ... | | 500 |

Divisions in the subjects for Examinations. 4. The divisions of the examinations in the groups under Part III shall be as follows:—

- Group (i-a)—Mathematics—*(1) Pure Mathematics,
(2) Applied Mathematics.
- „ *(i-b)—Mathematics—*(1) Compulsory subjects,
(2) Optional subjects.
- „ *(i-c)—Statistics—*(1) Pure Mathematics (Geometry, Algebra and Trigonometry, and Calculus), (2) Statistics (Statistics I and Statistics II), (3) Practical.
- „ *(ii)—Mathematics—*(1) Main subject,
(2) Subsidiary subject,
and
- „ *(ii)—Other subjects—*(1) The written examination in the main subject, (2) the practical examination in the main subject, (3) the examination in the subsidiary subject.

-
- Group (iii-a)—Philosophy—*(1) Psychology and Ethics, (2) European Logic and Theory of Knowledge *or* Political Philosophy, Indian Logic *or* Indian Philosophical Classic, and European Philosophical classic.
- „ *(iii-b)—Philosophy—*(1) Psychology and Ethics, (2) Politics and Histories.
- „ *(iv-a)—History and Economics—*(1) General Indian History and Outlines of European History and Economics, (2) Constitutional History and Politics.
- „ *(iv-b)—Economics and History—*(1) Economics, [the three papers—Economics (General), Economics (Special) and Economic History], (2) the two other subjects.
- „ *(iv-c)—Politics and History—*(1) General Indian History, Outlines of European History and Economics, (2) Political Theory and Political Organization.
- „ *(iv-d)—Islamic History and Culture—*(1) General History of Islam, Civilization and Culture of Islam and History of Islam in India, (2) Politics and Economics.
- „ *(v)—Languages other than English—*(1) Selected Language, (2) Cognate Subject or Related Language.
- „ *(vi)—Indian Music—*(1) Theory, (2) Practical Examination.
- „ *(vii)—Western Music—*(1) Theory, (2) Practical Examination.
- „ *(viii)—Geography—*(1) Regional Geography of India, General Regional Geography of the World and Optional Subjects, (2) Physical Basis of Geography and Practical Geography.

Group (ix)—Home Science—(1) Household Economics, (2) Written Examination in the other subjects (Bacteriology and Hygiene, Physiology and Nutrition, and Applied Physical Science), and (3) Practical Examination in Bacteriology and Hygiene, Physiology and Nutrition, and Applied Physical Science.

Conditions of Eligibility of a candidate for the Degree. 5. No candidate shall be eligible for the Degree of Bachelor of Arts until he has completed the course of study prescribed and passed the examination in the subjects contained in the course of study as detailed in Regulations 2 and 3 *supra*.

Marks required for Pass in the several Parts to qualify for the Degree. 6. A candidate shall not be eligible for the Degree of Bachelor of Arts unless he has passed the examination in English (Part I), the examination in the selected second language under Part II, and the examination in the selected optional group under Part III. A candidate who obtains not less than 35 per cent. of the marks in Part I shall be declared to have passed the examination in Part I, a candidate who obtains not less than 35 per cent. of the marks in the selected language in Part II shall be declared to have passed the examination in Part II, and a candidate who obtains not less than 35 per cent. of the total marks in the selected optional group in Part III and not less than 30 per cent. of the marks in each division of the examination in this Part, except in the case of Groups (vi) and (vii) Indian Music and Western Music, shall be declared to have passed the examination in Part III.

In the case of Groups (vi) and (vii)—Indian Music and Western Music—a candidate who obtains not less than 35 per cent. of the total marks and not less than 35 per cent. in the practical examination and not less than 30 per cent. in the theory examination shall be declared to have passed the examination in Part III.

A candidate offering Military Science—Certificate 'B'—of the Madras University Officers' Training Corps either in place of 'Shakespeare' and 'Modern Poetry' or as an

additional subject shall be required to sit for the examination conducted by the Army, and to secure a pass therein, according to the standard laid down by the Army from time to time :

Provided that until such time as provision is made for holding the examination for Certificate 'A' or 'B' twice yearly, it shall be open to a candidate who has gained pass marks in Certificate 'B' to claim credit as having already passed in the Certificate as a portion of Part I of the B.A. Degree Examination and to appear only in the remaining papers for the B.A. Degree Examination at the next or any succeeding examination.

Candidates who fail to obtain a pass in Military Science—Certificate 'B'—and desire to complete the B.A. Degree Examination in English shall be permitted to do so without further attendance in "Shakespeare" and "Modern Poetry", provided they pass the examination in accordance with the conditions laid down in the Regulations.

Classification of successful candidates. 7. Successful candidates who obtain not less than 60 per cent. of the marks in any Part mentioned in Regulation 3 shall be placed in the first class in that Part. Successful candidates who obtain less than 60 per cent. and not less than 50 per cent. of the marks in any Part shall be placed in the second class in that Part. All the other successful candidates obtaining less than 50 per cent. of the marks in any Part shall be placed in the third class in that Part.

Candidates may present for the Examination in Parts—Payment of fees. A candidate for the B.A. Degree Examination may, at his option, present himself for the whole or for any Part or Parts of the examination at any one time. He should, however, pay the fee for the whole examination at his first appearance.

A B.A. may qualify in an additional language in Part II. 9. A person who has qualified for the B.A. Degree of this University shall be permitted to present an additional language as a second language under Part II of the B.A. Degree Examination, provided that the Syndicate is satisfied that he has undergone the course of study prescribed in the language selected

by attending a college for a period of not less than one academic year of 3 terms after qualifying for the degree.

A candidate coming under the provisions of this Regulation shall be declared to have passed the examination if he obtains not less than 35 per cent. of the marks.

10. A person who has qualified for the B.A. Degree of this University shall be permitted to appear for a different optional group under Part III of the B.A. Degree examination, provided that the Syndicate is satisfied that he has undergone the course of study (both theoretical and practical) prescribed for the selected new group of optional subjects by attending a college for a period of not less than one academic year of 3 terms after qualifying for the degree.

**A B.A. may
qualify in
additional
subjects in
Part III.**

In the case of Science subjects, the main subject offered for the subsequent examination shall be one different from the main subject in which he previously qualified for the degree. He shall be exempted from examination in the subsidiary subjects, provided it was offered as his main or subsidiary subject on the occasion when he qualified for the degree.

A candidate coming under the provisions of this Regulation shall be declared to have passed the examination if he obtains not less than 35 per cent. of the marks in the aggregate, and not less than 30 per cent. in each division of the optional group in Part III.

The divisions for the different groups shall be the same as those prescribed in Regulation 4 *supra*, except in the case of the group for Science subjects where the candidate is exempted from the examination in the subsidiary subject. Where he is exempted from examination in the subsidiary subject, his aggregate marks shall comprise the marks in the main subject only :

Provided, however, a candidate who has already qualified for the B.A. Degree of this University in Group (i-a), (i-b) or (ii-a) and desires to qualify further in Group (i-c)—Statistics—shall be exempted from examination in the following subjects which are common to these Groups :—Geometry ; Algebra and Trigonometry ; and Calculus.

11. A candidate who has qualified for the B.Sc. Degree shall be permitted to appear for the B.A. Degree Examination after one year's course in Parts I and II in a Constituent or an Affiliated College. Candidates coming under this Regulation shall be exempted from examination in Part III—Optional Group.

B.Sc. to proceed for B.A.

Classification of successful candidates under Regulations 9, 10 and 11.

12. Successful candidates under Regulations 9, 10 and 11 shall be placed in a separate list. They shall not be eligible for prizes or medals awarded by the University.

Such candidates shall not be admitted at a Convocation a second time, but a special Certificate setting forth the further subjects of the examination passed by them and the dates of such examination shall be given to them.

13. Candidates who have undergone the prescribed course of study for the Degree of Bachelor of Arts either under the Old Bye-laws or the Old Regulations in force prior to 1929-30, and are qualified to sit for the examination, shall be permitted to appear for the B.A. Degree Examination under the existing Regulations without producing additional certificates of attendance in Parts or Groups corresponding to the Divisions or Groups of the Old Bye-laws or Old Regulations respectively. Such candidates shall appear for the three Parts of the examination, provided that candidates who have passed in any Division or Divisions or a Part of the B.A. Degree Examination under either the Old Bye-laws or Old Regulations, as the case may be, shall be deemed to have passed in the corresponding Part or Parts under the existing Regulations, viz.,

Division I or Part I (English Language) corresponding to Part I.

Division II (Second Language) corresponding to Part II, and

Division III or Part II (Optional Group) corresponding to Part III.

Candidates may also be permitted to take any of the optional groups prescribed under Part III, and offered by

college candidates, under the existing Regulations, subject to the proviso that the optional subject proposed to be taken does not require any practical course of laboratory training.

Candidates desiring to appear under this Regulation shall obtain the previous permission of the Syndicate to sit for the examination by application made to the Registrar on or before the 1st November or 1st April preceding the March or September examination, as the case may be. Permission once granted shall be permanent.

14. Candidates who appear in January-February 1944 either for Certificate 'A' or 'B' shall be given the exemptions as laid down in resolution 5-A of the Academic Council, dated the 18th February 1943. Such candidates who have been exempted for Certificate 'A' will not, however, be eligible for any further exemption for the same examination, *viz.*, B.A. or B.Sc. Should they however pursue their studies of Military Science under the revised Regulations, and apply for Certificate 'B' during their academic course of study for the B.A. or B.Sc., the exemptions under the revised Regulations will be applicable to them also.

Candidates offering Military Science as an additional subject shall be deemed to have passed the examination in Part I if they pass in all the papers except those for which Military Science may be offered as an alternative, and in Military Science.

Note.—The Regulations governing Certificate 'B' adopted by the Academic Council at its meeting held on the 18th February 1943, shall cease to be in force from July 1944.

CHAPTER XLIV.

Degree of Bachelor of Arts (Honours).

1. Candidates for the Examination of Bachelor of Arts (Honours) Degree shall be required;

either

A

(1) to have passed the Intermediate Examination in Arts and Science of this University and to have satisfied the requirements under (i) of (c) Part III of Regulation 3 of Chapter XLII *re* Intermediate Examination in Arts and Science, or an examination accepted by the Syndicate as equivalent thereto, under conditions, if any, prescribed; and

(2) to have undergone subsequently a further course of study in a Constituent or an Affiliated College for a period of not less than three academic years or nine terms;

or

B

(1) to have qualified for the Degree of Bachelor of Arts or Science in this University or to have passed a Degree examination of some other University in India accepted by the Syndicate as equivalent thereto, under conditions, if any, prescribed; and

(2) to have undergone subsequently a further course of study in a Constituent or an Affiliated College for a period of not less than two academic years or six terms.

2. The course shall comprise the study of—

Part I—Preliminary Examination.—English to be studied during the first year of the course.

Part II—Final Examination.—One of the following branches of knowledge to be studied during the course prescribed:—

Course of Study.

I-A. Mathematics.

I-B. Statistics.

II. Philosophy.

- III. History.
- IV. Economics.
- V. Politics.
- VI. * * *
- VII. English Language and Literature.
- VIII. Sanskrit Language and Literature.
- IX. Arabic Language and Literature.
- X. Syriac Language and Literature.
- XI. A Dravidian Language or Urdu and its Literature.
(Tamil, Telugu, Kannada, Malayalam or Urdu).
- XII. Hindi Language and Literature.
- XIII. Islamic History and Culture.

PART I.

English.

The course shall include—(a) in the case of candidates other than those who have selected
Course of Study Branch VII—English Language and
—English. Literature—

- (1) The study in detail of certain prescribed books (Prose); and
- (2) the study of certain books prescribed for perusal;
- (b) in the case of candidates who select Branch VII—**English Language and Literature—**
 - (1) The study of the History of England treated in relation to the History of English Language and Literature, and
 - (2) the study of certain books prescribed for perusal [as in (a) (2) above].

The books prescribed for perusal may include works of Fiction, Literary Criticism, Biography, History, Science or Philosophy.

PART II.

[*Note.*—Syllabuses for the subjects or text-books prescribed, if any, will be found in **Appendix IV.**]

I-A. Mathematics.

Course of Study The course shall comprise the study
—Mathematics. of—

(a) Pure Mathematics :—

1. Pure Geometry including Projective Geometry.
2. Algebra and Theory of Equations.
3. Plane Trigonometry.
4. Differential and Integral Calculus including Reimann Integration, Cauchy's Theorem on Contour Integration and Fourier's Series.
5. Elementary Differential Equations.
6. Co-ordinate Geometry of Two Dimensions.
7. Solid Geometry—the Line, Plane, Sphere and Surfaces of the Second Degree.

(b) Applied Mathematics :—

1. Statics excluding the Theory of Potentials.
2. Dynamics of a Particle.
3. Dynamics of a Rigid Body—motion in two dimensions.
4. Hydrostatics.
5. Astronomy, General and Elementary Spherical.

and (c) two subjects to be selected out of the following optional subjects, at least one of which shall be from numbers 1 to 5.

| | | | |
|--------------------------------|-----|-----|--------------------|
| 1. Geometry | ... | ... | A special subject* |
| 2. Algebra | ... | ... | Do. |
| 3. General Theory of Functions | | | Do. |
| 4. Differential Equations | ... | | Do. |
| 5. Special Functions | ... | | Do. |
| 6. Dynamics | ... | ... | Do. |
| 7. The Potentials | ... | ... | Do. |
| 8. Elasticity * | ... | ... | Do. |
| 9. Hydrodynamics and Sound | | | Do. |

A candidate shall give notice through his college, a year before the date of the examination, of the particular subjects he proposes to take.

I-B. Statistics.

Course of Study The course shall comprise the study
—Statistics. of :—

- (a) Pure Mathematics. [Same as for B.A. (Honours) Branch I-A Mathematics.]
- (b) General Algebra.
- (c) Statistical Methods including theory of probability and calculus of finite differences—
 - 1. Statistics I. Probability, distributions and curve fitting.
 - 2. Statistics II. Interpolation, variation and correlation and analysis of time series.
 - 3. Statistics III. Sampling, analysis of variance, estimation and testing of hypothesis.

II. Philosophy.

Course of Study The course shall comprise the study
—Philosophy. of—

- 1. Psychology.
- 2. *Either* Theory of Knowledge *or* Ethics, provided that a candidate selecting Theory of Knowledge must have attended, and made satisfactory progress in the course of

*For the special subjects prescribed under each head, please see APPENDIX IV.

instruction in Ethics equivalent to that required of candidates for the B.A. Degree, and that a candidate selecting Ethics must have attended and made satisfactory progress in a course of instruction in European Logic and Theory of Knowledge equivalent to that required of candidates for the B.A. Degree.

3. Outlines of Indian Philosophy.

4. European Philosophy from Descartes to Kant.

5. and 6. Two subjects both of which must be selected *either* from list A *or* from list B. (Candidates who select Theory of Knowledge in 2 above should select subjects from list A, and those who select Ethics should select subjects from list B).

List A.

- | | |
|----------------------------|---|
| (a) Indian Logic. | (c) Greek Philosophy. |
| (b) One of the following : | (d) Scholastic Philosophy. |
| i. Advaita Vedanta. | (e) Philosophy from Kant to Hegel. |
| ii. Saiva Siddhanta. | (f) A prescribed work dealing constructively with the general problems of Philosophy. |
| iii. Dwaita. | |
| iv. Visishtadwaita. | |
| v. Sankhya. | |
| vi. Buddhism. | |
| vii. Jainism. | |

List B.

- | | |
|---------------------------------------|--|
| (a) Social and Abnormal Psychology. | (d) Hindu Social Thought. |
| (b) Child and Educational Psychology. | (e) A prescribed Period or School of Political Philosophy. |
| (c) Philosophy of Religion. | (f) Political Philosophy. |

7. Essay.

A candidate shall give notice through his college, a year before the date of the examination, of the particular subjects he proposes to take.

III. History.

Course of Study The course shall comprise the study
—History. of—

1. The History of India.
2. Constitutional History of Great Britain and Ireland.

3. Politics.
4. Economics.
5. & 6. Special (optional) subjects. Any two subjects to be selected from a list prescribed from time to time, under the following main head*:
 - Politics.
 - History.
 - Indian History.
 - Economics.
7. Essay.

A candidate shall give notice through his college, a year before the date of the examination, of the particular subjects he proposes to take.

IV. Economics.

Course of Study The course shall comprise the study
—Economics. of :—

1. Principles of Economics.
2. Currency, Banking and International Trade.
3. Public Finance, including problems of public management and control.
4. Modern Economic History (India, Great Britain, France, Germany and the United States).
5. & 6. Optional Subjects—

Two out of the following subjects :—

- (i) A special subject in Economics—

Either (a) Rural Economics and Co-operation *or* (b) Industrial and Labour Problems, *or* (c) History of Economic Thought (with two classics to be prescribed every 3 years).

- (ii) Politics (as in Branch III).
- (iii) The History of India (as in Branch III).
- (iv) Statistics.

7. Essay.

*For the special subjects prescribed under each head, please see
APPENDIX IV.

A candidate shall give notice through his college, a year before the date of the examination, of the particular subjects he proposes to take.

V. *Politics.*

Course of Study The course shall comprise the study
—**Politics.** of

- (1) Political Theory—The Theory of the State.
- (2) History of Political Thought.
- (3) Political Institutions.
- (4) Economics (in common with Branch III).
- (5) History of Administrative and Constitutional Development in India.
- (6) One of the following optionals :—
 - (a) Public Administration—Principles and Practice (with documents).
 - (b) A period or topic of British Indian Administration (with documents).
- (7) Essay (in common with Branches III and IV).

A candidate shall give notice through his college, a year before the date of the examination, of the particular subjects he proposes to take.

VI.

VII. *English Language and Literature.*

Course of Study The course shall comprise the study
—**English.** of:—

- (a) The History of English Language—Old and Middle English.

The History of the English Language shall include phonology, accidence and syntax, also Germanic Philology so far as it bears on the English Language. In Old and Middle English there shall be prescribed certain selected texts. Ability to translate passages from Old and Middle English texts not prescribed shall be tested.

- (b) The History of English Literature; Shakespeare; Modern English.

A candidate shall be required to show a knowledge of the whole course of the History of English Literature. In Shakespeare a candidate shall, in addition to the detailed study of the prescribed plays, be required to show a general knowledge of Shakespeare's works and of Shakespearean criticism. In Modern English, there shall be a number of set books in prose and poetry of the 15th, 16th, 17th, 18th and 19th centuries. A candidate shall be required to make a detailed study of the texts, marked with an asterisk, and to show a general knowledge of the other prescribed texts.

(c) Special period or subject.

A candidate shall be required to offer for the examination a special period or subject selected by him from the following list:—

1. Literature of the 14th and 15th centuries.
2. Elizabethan Literature (*i.e.* 1558—1637).
3. The Age of Milton and Dryden.
4. The Age of Pope and Johnson.
5. Wordsworth and his contemporaries.
6. Tennyson and his contemporaries.

A candidate shall be required to show a knowledge of the writings of the chief authors of the period selected. He shall also be examined on certain set books of the period selected.

7. Indo-Germanic Philology with special reference to Sanskrit.
8. Indo-Germanic Philology with special reference to Gothic.

A candidate selecting 7 shall be examined in certain set books in Sanskrit. A candidate offering 8 shall be examined in select extracts of the literary remains of Gothic.

Books or groups of books set shall ordinarily continue to be the same for not less than five years. A candidate shall give notice through his college, at least a year before the date of the examination, of the books or groups of books which he proposes to offer.

VIII. Sanskrit Language and Literature.

1. Every candidate who presents himself for this **Course of Study** Branch of the B.A. (Honours) Degree examination, shall be required to possess **—Sanskrit.** a sound knowledge of the principles of comparative philology and of the elements of comparative grammar with special reference to the important Indo-Germanic Languages.

2. The course of studies shall further consist of one part fitted to equip the student with a general knowledge of the Sanskrit Language and Literature, and also of another part fitted to enable him to acquire a special knowledge of any specified branch or branches of that literature as prescribed from time to time.

3. The course in the general part shall comprise—

- (1) The History of the Language;
- (2) The History of the Literature in the language;
- (3) Grammar, Prosody and Poetics;
- (4) Prescribed text-books in poetry and prose, the selections being fairly representative of the various stages in the life of the Sanskrit language and literature.

4. The course in the special part shall comprise—

- (1) Prescribed text-books selected from any two of the following branches of Sanskrit Literature:—
 - i. Mimamsa, iv. Vyakarana,
 - ii. Vedanta, v. Alamkara, and
 - iii. Nyaya, vi. Sankhya-Yoga.

Translation from Sanskrit into English and from English into Sanskrit shall be included in the papers on these text-books.

- (2) A critical and comparative inquiry into the contents and value of the specified branch or branches of the literature selected for study by the candidate.

IX. Arabic Language and Literature.

1. Every candidate, who presents himself for this **Course of Study** Branch of the B.A. (Honours) Degree **—Arabic.** examination, shall be required to possess a sound knowledge of the principles of comparative philology and of the elements of comparative grammar with special reference to the important Semitic languages.

2. The course of study shall further consist of one part fitted to equip the student with a general knowledge of the Arabic language and literature, and also of another part fitted to enable him to acquire a special knowledge of any specified branch or branches of that literature as prescribed from time to time.

3. The course in the general part shall comprise—

- (1) The History of the Language;
- (2) The History of the Literature in the Language;
- (3) Grammar, Prosody and Poetics;
- (4) Prescribed text-books in poetry and prose, the selections being fairly representative of the various stages in the life of the Arabic language and literature;
- (5) Translation from Arabic into English, and from English into Arabic.

4. The course in the special part shall comprise—

- (1) Prescribed text-books selected from any specified branch or branches of Arabic Literature.
- (2) A critical and comparative inquiry into the contents and value of the specified branch or branches of the literature selected for study by the candidate.

X. Syriac Language and Literature.

1. Every candidate, who presents himself for this **Course of Study** Branch of the B. A. (Honours) Degree **—Syriac.** Examination, shall be required to possess a sound knowledge of the principles of Comparative Philology and of the elements of Comparative Grammar with special reference to the important Semitic languages.

2. The course of study shall further consist of one part to enable the student to obtain a general knowledge of the Syriac language and literature, and also of another part to enable him to acquire a special knowledge of any specified branch or branches of that literature as prescribed from time to time.

3. The course in the general part shall comprise—

- (1) The History of the Language;
- (2) The History of the Literature in the Language;
- (3) Grammar, Prosody and Poetics;
- (4) Prescribed text-books in Poetry and Prose, the selections being fairly representative of the various stages in the life of the Syriac Language and Literature;
- (5) Translation from Syriac into English, and from English into Syriac.

4. The course in the special part shall comprise—

- (1) Prescribed Text-books selected from any specified branch or branches of Syriac Literature.
- (2) A critical and comparative inquiry into the contents and value of the specified branch or branches of the literature selected for study by the candidate.

XI. A Dravidian Language or Urdu and its Literature.

Course of Study
—Dravidian
Language
or Urdu.

The course shall comprise the study of:—

- (1) The History of the Language and Philology.
- (2) Prescribed text-books (General).
- (3) Prescribed text-books (Special)—either period or other Group.
- (4) Grammar, Prosody and Poetics.
- (5) The History of the Literature and Literary Criticism.

- (6) For all languages except Urdu, South Indian History and Inscriptions, and for Urdu—Arabic or Persian or Hindi.
- (7) Translation from English into the language.

XII. Hindi Language and Literature.

Course of Study
—Hindi
Language and
Literature.

The course shall comprise the study of:—

1. The History of the Language and Philology.
2. Prescribed Text-books— I—Ancient.
3. Prescribed Text-books—II—Modern.
4. Grammar, Prosody and Poetics.
5. The History of Literature and Literary Criticism.
6. Subsidiary Language—Sanskrit.
7. Translation from English into Hindi.
8. Essay (General).

XIII. Islamic History and Culture.

Course of Study
—Islamic
History and
Culture.

The course shall comprise the study of:—

- (1) Advanced History of Islam.
- (2) Islamic Law and Constitution.
- (3) & (4) Two Special Subjects dealing with Periods of Islamic History to be studied along with original authorities.
- (5) Politics. }
- (6) Economics. } (In common with Branch III.)
- (7) Essay. }

Syllabuses and text-books, if any, in the above subjects, shall be prescribed from time to time.

3. The scheme of examination shall be as follows:—

Part I.—Preliminary Examination.

English.

Scheme of Examination. There shall be two written papers of three hours' duration each.

| | Hours. | Marks. |
|-------------------------------------|--------|--------|
| 1. English Prose or English History | 3 | 100 |
| 2. English Composition | 3 | 100 |
| Total | | 200 |

Part II.—Final Examination.

Optional Branches.

The following shall be the scheme of examination in the optional branches:—

I-A. Mathematics.

Three papers shall be set in Pure Mathematics, three in Applied Mathematics and one in each of the optional subjects selected. Each paper shall be of three hours' duration and shall contain questions on the principles developed in the ordinary treatment of the subject as well as exercises of moderate difficulty arising therefrom.

| | | | ours. | Marks. |
|-------|---------------------|---------|-------|--------|
| *1. | Pure Mathematics | I ... | 3 | 175 |
| *2. | Do. | II ... | 3 | 175 |
| *3. | Do. | III ... | 3 | 175 |
| 4. | Applied Mathematics | I ... | 3 | 175 |
| 5. | Do. | II ... | 3 | 175 |
| 6. | Do. | III ... | 3 | 175 |
| 7. | Optional Subject | I ... | 3 | 175 |
| 8. | Do. | II ... | 3 | 175 |
| Total | | | | 1,400 |

* These three papers are common to Branches I-A. and I-B.

I-B. Statistics.

The examination shall be both written and practical and the scheme of examination shall be as follows:—

| | | | | Hours. | Marks |
|-----|-----------------------|-----|-----|-----------|-------|
| *1. | Pure Mathematics | I | ... | 3 | 175 |
| *2. | Do. | II | ... | 3 | 175 |
| *3. | Do. | III | ... | 3 | 175 |
| 4. | General Algebra | | ... | 3 | 175 |
| 5. | Statistics | I | ... | 3 | 175 |
| 6. | Do. | II | ... | 3 | 175 |
| 7. | Do. | III | ... | 3 | 175 |
| | Practical Examination | | ... | 3 | 150 |
| | Record Note-books | | ... | | 25 |
| | | | | Total ... | 1,400 |

Each candidate shall submit his note book containing the record of all his practical work performed during the period of study for the examination. The record shall be countersigned by the Professor under whom the candidate has worked to certify it to be a *bona fide* record of work performed by the candidate. It shall be submitted at the time of the practical examination to the Examiners engaged in conducting the examination.

II. Philosophy.

There shall be a written examination of seven papers of 3 hours' duration each and a *viva voce* test.

| | | | | Hours. | Marks. |
|----|-------------------------------|--|-----|--------|--------|
| 1. | Essay | | ... | 3 | 200 |
| 2. | Psychology | | ... | 3 | 200 |
| 3. | Theory of Knowledge or Ethics | | ... | 3 | 200 |
| 4. | Outlines of Indian Philosophy | | ... | 3 | 200 |
| 5. | European Philosophy—Des- | | | | |
| | cartes to Kant | | ... | 3 | 200 |
| 6. | Special Subject I | | ... | 3 | 200 |
| 7. | Special Subject II | | ... | 3 | 200 |
| | | | | Total | 1,400 |

* These three papers are common to Branches I-A and I-B.

The *viva voce* test shall be held as soon as possible after the examiners have valued the written answers of the candidates. No fixed proportion of marks shall be assigned to it; its purpose is to assist the Examiners in placing the candidates.

III. History.

Scheme of Examination. There shall be seven papers of 3 hours' duration each.

| | Hours. | Marks. |
|---|--------|--------------|
| *1. Essay ... | 3 | 200 |
| 2. The History of India ... | 3 | 200 |
| 3. Constitutional History of Great Britain and Ireland... | 3 | 200 |
| **4. Politics—General ... | 3 | 200 |
| †5. Economics—General ... | 3 | 200 |
| 6. Special Subject I ... | 3 | 200 |
| 7. Special Subject II ... | 3 | 200 |
| Total ... | | <u>1,400</u> |

IV. Economics.

Scheme of Examination. There shall be seven papers of 3 hours' duration each.

| | Hours. | Marks. |
|--|--------|--------------|
| 1. Principles of Economics ... | 3 | 200 |
| 2. Currency, Banking and International Trade ... | 3 | 200 |
| 3. Public Finance ... | 3 | 200 |
| 4. Modern Economic History ... | 3 | 200 |
| 5. Optional Subject I ... | 3 | 200 |
| 6. Optional Subject II ... | 3 | 200 |
| *7. Essay ... | 3 | 200 |
| Total ... | | <u>1,400</u> |

* This question paper is common to Branches III, IV, V and XIII.

** This question paper is common to Branches III, and XIII.

† This question paper is common to Branches III, V and XIII.

V. Politics.

Scheme of Examination. There shall be seven papers of 3 hours' duration each.

| | Hours. | Marks. |
|---|--------|--------|
| 1. Political Theory—The Theory of the State | 3 | 200 |
| 2. History of Political Thought... | 3 | 200 |
| 3. Political Institutions | 3 | 200 |
| †4. Economics—General | 3 | 200 |
| 5. History of Administrative and Constitutional Development in India | 3 | 200 |
| 6. Optional Subject | 3 | 200 |
| *7. Essay | 3 | 200 |
| Total ... | 21 | 1,400 |

VI.

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VII. English Language and Literature.

There shall be both a written and a *viva voce* examination. The written examination shall consist of three divisions. There shall be three papers in division (a), five papers in division (b) and two papers in division (c), as follows:—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Beowulf and other Old English texts | 3 | 150 |
| 2. Chaucer and other Middle English texts | 3 | 150 |
| 3. History of the English Language | 3 | 150 |
| 4. Shakespeare | 3 | 175 |
| 5. Modern English Literature— Paper I | 3 | 125 |
| 6. Do. Paper II | 3 | 125 |
| 7. Do. Paper III | 3 | 125 |
| 8. Essay | 3 | 100 |
| 9. Special Period—Paper I | 3 | 150 |
| 10. Special Period—Paper II | 3 | 150 |
| Total ... | 21 | 1,400 |

* This question paper is common to Branches III, IV, V and XIII.

† This question paper is common to Branches III, V and XIII.

The *viva voce* examination shall be held as soon as possible after the Examiners have valued the written answers of the candidates. No fixed proportion of marks shall be assigned to it. Its purpose is to assist the Examiners in placing the candidates.

VIII. Sanskrit Language and Literature.

1. There shall be a paper on the principles of Comparative Philology and the elements of Indo-Germanic Comparative Grammar.

2. In addition to this there shall be in the general part—

- (1) One paper on the History of the Sanskrit Language and Literature;
- (2) One paper on Grammar, Prosody and Poetics;
- (3) One paper on the prescribed text-books, in which also there shall be questions on the grammar, structure and idiom of the language;

and in the special part there shall be—

- (1) Four papers (two on each of the two selected Branches of Sanskrit Literature) on the prescribed text-books;

Questions in translation from Sanskrit into English and *vice versa* shall be included in these papers, the passage given for translation not being taken from any of the prescribed text-books;

- (2) An essay in English on a subject intimately related to the specified branch or branches of Sanskrit literature from which the text-books of the special part are prescribed.

Scheme of Examination. The scheme of examination shall be as follows:—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Comparative Philology and Comparative Grammar ... | 3 | 200 |
| 2. History of the Sanskrit Language and Literature ... | 3 | 150 |
| 3. Prescribed text-books—General | 3 | 150 |
| 4. Grammar, Prosody and Poetics | 3 | 150 |
| 5. Prescribed text-books— Special Subject I—Paper I | 3 | 150 |
| 6. Do. do. I—Paper II | 3 | 150 |
| 7. Do. do. II—Paper I | 3 | 150 |
| 8. Do. do. II—Paper II | 3 | 150 |
| 9. Essay | 3 | 150 |
| Total | | 1,400 |

IX. Arabic Language and Literature.

1. There shall be a paper on the principles of Comparative Philology and the elements of Semitic Comparative Grammar.

2. In addition to this there shall be in the general part:—

- (1) One paper on the History of the Arabic Language and Literature;
- (2) One paper on Grammar, Prosody and Poetics;
- (3) One paper on the prescribed text-books in which also there shall be questions on the grammar, structure and idiom of the language;
- (4) One paper on translation from as well as into Arabic, the passage given for translation not being taken from any of the prescribed text-books;

and in the special part there shall be—

- (1) Three papers on the prescribed text-books ;
- (2) An essay in English on a subject intimately related to the specified branch or branches of Arabic Literature from which the text-books of the special part are prescribed.

The scheme of examination shall be as follows :—

| Scheme of Examination. | | | Hours. | Marks. |
|------------------------|-------|---|--------|--------|
| | 1. | Comparative Philology and Comparative Grammar | 3 | 200 |
| | 2. | History of the Arabic Language and Literature ... | 3 | 150 |
| | 3. | Prescribed text-books— | | |
| | | General ... | 3 | 150 |
| | 4. | Do. Special I ... | 3 | 150 |
| | 5. | Do. Special II ... | 3 | 150 |
| | 6. | Do. Special III ... | 3 | 150 |
| | 7. | Grammar, Prosody and Poetics. | 3 | 150 |
| | 8. | Translation | 3 | 150 |
| | 9. | Essay | 3 | 150 |
| | Total | | | 1,400 |

X. Syriac Language and Literature.

1. There shall be a paper on the principles of Comparative Philology and the elements of Semitic Comparative Grammar.

2. In addition to this, there shall be in the general part—

- (1) One paper on the History of the Syriac Language and Literature ;
- (2) One paper on Grammar, Prosody and Poetics ;

- (3) One paper on the prescribed text-books in which also there shall be questions on the grammar, structure and idiom of the language ;
- (4) One paper on translation from as well as into Syriac, the passage given for translation not being taken from any of the prescribed text-books ;

and in the special part there shall be—

- (1) Three papers on the prescribed text-books ;
- (2) An essay in English on a subject intimately related to the specified branch or branches of Syriac Literature from which the text-books of the special part are prescribed.

Scheme of Examination. The scheme of examination shall be as follows :—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Comparative Philology and Comparative Grammar ... | 3 | 200 |
| 2. History of the Syriac Language and Literature ... | 3 | 150 |
| 3. Prescribed text-books—General | 3 | 150 |
| 4. Prescribed text-books— Special I ... | 3 | 150 |
| 5. Prescribed text-books— Special II ... | 3 | 150 |
| 6. Prescribed text-books— Special III ... | 3 | 150 |
| 7. Grammar, Prosody and Poetics | 3 | 150 |
| 8. Translation ... | 3 | 150 |
| 9. Essay ... | 3 | 150 |
| Total | | 1,400 |

XI. A Dravidian Language or Urdu and its Literature.

Scheme of Examination. Candidates shall be examined in the following subjects and there shall be eight papers as follows :—

| | Hours. | Marks. |
|---|--------|--------|
| 1. Essay | 3 | 200 |
| 2. The History of the Language and Philology ... | 3 | 200 |
| 3. Prescribed text-books—General | 3 | 150 |
| 4. Prescribed text-books—Special (either period or group) ... | 3 | 150 |
| 5. Grammar, Prosody and Poetics | 3 | 150 |
| 6. History of Literature and Literary Criticism ... | 3 | 200 |
| 7. For all languages except Urdu, South Indian History and Inscriptions, and for Urdu—Arabic or Persian or Hindi | 3 | 200 |
| 8. Translation from English into the language | 3 | 150 |
| Total ... | | 1,400 |

XII. Hindi Language and Literature.

Scheme of Examination. There shall be eight papers as follows :—

| | Hours. | Marks. |
|---|--------|--------|
| 1. Essay | 3 | 200 |
| 2. The History of the Language and Philology ... | 3 | 200 |
| 3. Prescribed Text-books— I—Ancient ... | 3 | 150 |
| 4. Do. II—Modern ... | 3 | 150 |
| 5. Grammar, Prosody and Poetics | 3 | 150 |
| 6. The History of Literature and Literary Criticism ... | 3 | 200 |
| 7. Subsidiary Language—Sanskrit* | 3 | 200 |
| 8. Translation | 3 | 150 |
| Total ... | | 1,400 |

*(Note :—The paper on *Subsidiary Language—Sanskrit*—shall deal with prescribed Text-books and shall include also a passage or passages for Translation from English into Sanskrit, the time allotted to Translation being one hour).

XIII. Islamic History and Culture.

Scheme of Examination. There shall be seven papers of three hours' duration each :—

| | Hours. | Marks. |
|----------------------------------|--------|--------------|
| 1. Advanced History of Islam ... | 3 | 200 |
| 2. Islamic Law and Constitution. | 3 | 200 |
| 3. Special Subject I ... | 3 | 200 |
| 4. Do. II ... | 3 | 200 |
| *5. Politics ... | 3 | 200 |
| †6. Economics—General ... | 3 | 200 |
| ‡7. Essay ... | 3 | 200 |
| Total ... | | <u>1,400</u> |

4. A candidate for the B.A. (Honours) Degree who has passed the B.A. (Pass) Degree examination of this University or who has passed a degree examination of some other University recognised as equivalent thereto shall be exempted from passing in the Preliminary Examination in Part I—English.

5. A candidate who has qualified for the Degree of Bachelor of Science with Mathematics as main subject shall be permitted to appear for the B.A. (Honours) Degree examination in Branch I—Mathematics—after a two years' course in a Constituent or an Affiliated College. He shall be exempted from examination in the Preliminary Examination in Part I—English.

6. A candidate who has qualified for the Bachelor of Science (Honours) Degree of this University shall be permitted to appear for the Bachelor of Arts (Honours) Degree Examination after undergoing the prescribed course of study in the Branch of subject or subjects selected by him for two academic years in a Constituent or an Affiliated College

*In common with Branch III.

†In common with Branches III and V.

‡In common with Branches III, IV and V.

of this University. He shall be exempted from examination in Part I—English (Preliminary Examination).

A candidate coming under the provisions of this Regulation shall be declared to have passed the examination if he obtains not less than 40 per cent. of the total marks in the Branch of subject or subjects selected by him and not less than 30 per cent. of the marks in each division of the examination.

They shall not be eligible for prizes or medals awarded by the University.

7. No candidate shall be permitted to undergo the complete Final Examination in Honours more than once. A candidate for the Final Examination shall be permitted to withdraw from the examination, provided he has not sat for the last paper in the examination, and provided he has given notice of withdrawal to the Registrar within three clear days from the date of the last paper which he answered. He shall be permitted to appear again for the Final Examination in the following year without producing any additional certificate of attendance.

Note:—A candidate shall be deemed to have sat for the last paper if he has entered the hall in which the examination for the last paper is held.

8. A candidate for the B.A. (Honours) Degree shall be required to appear for the Final Examination in Honours—

Time limit for appearance for Final Examination.

(1) not later than the end of the fourth year after commencing the Honours Degree course in a college;

or

(2) in the case of a Bachelor of Arts or Science proceeding to the Honours Degree examination, not later than three years after commencing the Honours Degree course in a college.

9. The Preliminary Examination, Part I—English—shall be held for candidates taking the three years' course in Honours, as prescribed in Regulation 1-A.

Admission to Part I Examination.

No candidate shall be admitted to the examination unless he has satisfied the condition prescribed in Regulation 1-A (1) and has undergone the prescribed course of study.

10. No candidate other than a candidate exempted under the provisions of Regulations 4, 5 and 6 shall be admitted to the Final Examination (Part II) in Honours unless he has passed the Preliminary Examination (Part I)—English.

11. No candidate shall be eligible for the B.A. (Honours) Degree until he has passed the Preliminary Examination, Part I—English—(unless otherwise exempted), and the Final Examination (Part II) in one of the branches of knowledge as prescribed.

12. *Part I—English—Preliminary Examination.*—A candidate who secures not less than 40 per cent. of the aggregate marks in the two papers in English shall be declared to have passed the examination in Part I.

A candidate who secures not less than 60 per cent. of the aggregate marks shall be declared to have passed the examination with distinction.

13. *Part II—Final Examination.*—A candidate shall be declared to have passed the examination in one of the branches of knowledge for the B.A. (Honours) Degree if he obtains not less than 40 per cent. of the total marks and not less than 30 per cent. in each division of the examination. All other candidates shall be deemed to have failed in the examination for Honours. The divisions shall be as follows :—

Divisions of subjects. *Branch I-A—*(a) Pure Mathematics,
(b) Applied Mathematics,
(c) Optional subjects.

Branch I-B.—(a) Pure Mathematics and General Algebra, (b) Statistics I, II and III, (c) Practical.

Branch II.—(a) i. Psychology; ii. Theory of Knowledge or Ethics, (b) i. Outlines of Indian Philosophy; ii. European Philosophy, (c) i. Special subjects; ii. Essay.

Branch III.—(a) Indian History and Constitutional History, (b) Politics and Economics, (c) Special subjects.

Branch IV.—(a) Principles of Economics and Modern Economic History, (b) Currency, Banking, etc., and Public Finance, (c) Special (Optional) Subjects.

Branch V.—(a) Political Theory, History of Political Thought, and Political Institutions; (b) Economics and History of Administrative and Constitutional Development in India; (c) Optional subject.

(Note.—No special minimum is prescribed for the Essay paper in Branches III, IV and V).

Branch VI. * * *

Branch VII.—(a) English Language, (b) English Literature and Essay, and (c) Special period or subject.

Branches VIII, IX and X.—(a) Comparative Philology and Comparative Grammar, (b) General Part, (c) Special Part and Essay.

Branch XI.—(a) History of Language and Philology, and History of Literature and Literary Criticism, (b) Prescribed text-books (General and Special), and Grammar, Prosody and Poetics, (c) Essay, Translation from English into the

language and South Indian History and Inscriptions (in the case of Dravidian Languages) or Arabic, or Persian, or Hindi (in the case of Urdu).

Branch XII.—(a) History of Language and Philology, and History of Literature and Literary Criticism, (b) Prescribed text-books, Grammar, Prosody and Poetics, (c) Essay, Translation and Subsidiary Language.

Branch XIII.—(a) Advanced History of Islam and Islamic Law and Constitution; (b) Politics and Economics; (c) Special Subjects.

(*Note.*—No special minimum is prescribed for the Essay paper.)

14. Successful candidates in the examination shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in three classes:—

Classification of successful candidates.

Candidates who obtain not less than sixty per cent. of the aggregate marks shall be placed in the first class; those who obtain less than sixty per cent. but not less than fifty per cent. shall be placed in the second class; and all the other successful candidates shall be placed in the third class.

15. In the event of a candidate for the B.A. (Honours) Degree failing to satisfy the Examiners he may be recommended by them for the B.A. Degree, provided that he obtains not less than $33\frac{1}{3}$ per cent. of the total marks and not less than 25 per cent. in each division of the examination.

Candidates for (Hons.) recommended for B.A. Degree—When and how.

16. (a) A candidate not already eligible for the B.A. Degree, who, having failed completely in the B.A. (Honours) Degree Examination, desires to appear for the B.A. Degree Examination shall be allowed to do so without the production of a further certificate of attendance in a Constituent or an Affiliated College.

Failed or withdrawn candidates from (Hons.) Examination to appear for B.A.

(b) A candidate not already eligible for the B.A. Degree who, after being registered, presents himself for the B.A. (Honours) Degree Examination in any year and withdraws from the same and is prevented, through illness or otherwise, from subsequently presenting himself for examination within the period prescribed under Regulation 8 (1) of this Chapter, shall be allowed to appear for the B.A. Degree Examination without the production of a further certificate of attendance in a Constituent or an Affiliated College.

Candidates appearing under this Regulation for the B.A. Degree Examination shall appear for all the Parts of the Examination and shall take under Part III the same optional subject which they studied for the Honours course except in the case of candidates who took English Language and Literature for the B.A. (Honours) Degree, who may be permitted to take any optional group other than Group (ii) in the B.A. Degree Examination.

CHAPTER XLV.

M.A. Degree Examination.

1. A candidate who has qualified for the B.A. (Honours) Degree of this University by passing the prescribed examination under the Regulations may, without further examination but upon payment of the prescribed fee, proceed to take the M.A. Degree of this University at any Convocation subsequent to his taking the B.A. (Honours) Degree.

2. A candidate for the B.A. (Honours) Degree Examination of this University who has been recommended by the Examiners for the B.A. Degree (under Regulation 15 of Chapter XLIV *supra*) shall be permitted to appear for the M.A. Degree Examination in the same subject or subjects after undergoing the course of study in the subject or subjects for one academic year in a college recognised by or affiliated to the University for Honours.

3. A candidate who has passed the B.A. Degree Examination of this University or an Examination of some other University accepted by the Syndicate as equivalent thereto, shall be permitted to appear and qualify for the M.A. Degree Examination of this University after a further course of two academic years in a Constituent or an Affiliated College of this University. The courses of studies, syllabuses, subjects for the examination, scheme of marks and time-tables, marks qualifying for a pass and divisions of the subjects for the M.A. Degree Examination shall be the same in all Branches as for the Final Examination for the B.A. (Honours) Degree conducted in the year in the subjects in the corresponding Branch.

He shall be exempted from passing the B.A. (Honours) Preliminary Examination—Part I—English :

Provided, however, that a candidate who has passed the B.Sc. Degree Examination of this University or some other

recognised University accepted by the Syndicate as equivalent thereto, and has taken Mathematics as the main subject for the Degree, shall be permitted to appear and qualify for the M.A. Degree Examination in Mathematics, after a further course of two academic years in a Constituent or an Affiliated College of this University :

Provided, however, that graduates of other Universities shall not be eligible to appear for the examination unless they have resided for two academic years, prior to the date of their application for examination, within the University limits or area, and have pursued a course of study in a Constituent or an Affiliated College of the University :

Provided, however, that a candidate who has appeared for the M.A. Degree Examination in 1938 or earlier and failed therein shall be permitted to appear for the examination in any year without undergoing a further course for two years.

Such Bachelors of Arts, when qualified, may upon payment of the prescribed fee, proceed to the Degree of M.A.

4. A candidate who has undergone the courses of study in the subject or subjects prescribed for the M.A. Degree Examination in Regulation 3 *supra* for two academic years in a Constituent or an Affiliated College of this University, the whole or part of which was prior to the academic year 1936-37, shall be permitted to appear for the M.A. Degree Examination of 1938 *et seq* on the production of the necessary certificates of attendance in the subject or subjects earned by him prior or subsequent to 1936-37.

5. A candidate who has qualified for the B.A. (Honours) Degree or the M.A. Degree of this University in one subject shall be permitted to appear again for the M.A. Degree Examination in a different branch or subject where no practical laboratory work is involved, without undergoing a further course of study in a college of this University, provided, however, that a candidate who has qualified for the B.A. (Honours) or M.A. Degree shall have taken the M.A. Degree before appearing for the M.A. Degree Examination in the new branch or subject or subjects.

**M.A.s to
qualify in
another
subject.**

Such candidates under the above Regulation shall not be admitted at a Convocation a second time, but special Post-Graduate Certificates setting forth the further subject or subjects passed by them and the dates of such examination shall be given to them.

Successful candidates under the above Regulation shall be placed in a separate list. They shall not be eligible for prizes or medals awarded by the University.

6. A Bachelor of Arts of this University, who has qualified in Arabic, Persian, Tamil, Telugu, Kannada, Malayalam or Urdu under Part III, Group (v), may, after an interval of two academic years from the date of qualifying for that Degree, qualify for the Degree of Master of Arts (M.A.), by passing the prescribed examination in the same language :

**Transitory provision
re B.A.'s
appearing
for M.A. in
certain
languages.**

Provided that a Bachelor of Arts who has taken Persian under Part III, Group (v), may be permitted to qualify for the Degree of Master of Arts in Urdu Language and Literature.

The course of studies, syllabuses, subjects, scheme of examination and time-tables for the examination for the Degree of Master of Arts shall be the same as for the Final Examination for the Degree of Bachelor of Arts (Honours) provided that candidates under this Regulation shall not be required to undergo the prescribed course of study in a Constituent or an Affiliated College.

The M.A. Degree Examination under this Regulation will be held till the end of the academic year 1947-48.

CHAPTER XLVI.

Degree of Master of Letters (M. Litt.)

(Common to the Faculties of Arts, Fine Arts and Oriental Learning)

1. A candidate may present himself for the Degree of Master of Letters (M. Litt.) under the following conditions :—

(a) *Faculty of Arts*—(i) A Bachelor of Arts of this University, or of any other University recognised by the Syndicate as equivalent thereto, after two years of research under supervision and after registration.

(ii) A Bachelor of Arts (Honours) or Master of Arts of this University, or of any other University recognised by the Syndicate as equivalent thereto, after one year's research under supervision and after registration.

(b) *Faculty of Fine Arts*—A Bachelor of Music of this University, or of any other University recognised by the Syndicate as equivalent thereto, after two years of research under supervision and after registration.

(c) *Faculty of Oriental Learning*—(i) A Bachelor of Oriental Learning of this University, or of any other University recognised by the Syndicate as equivalent thereto, after two years of research under supervision and after registration.

(ii) A Bachelor of Oriental Learning (Honours) of this University, or of any other University recognised by the Syndicate as equivalent thereto, after one year's research under supervision and after registration :

provided that it shall be competent for the Syndicate to dispense with a strict compliance with the above Regulation in very special cases ;

provided further that graduates of other Universities shall not be eligible to submit theses for the Degree, unless they have resided within the University limits or area for two years, subsequent to registration, and have pursued a course of research in the University or in a Constituent or Affiliated College thereof recognised by the Syndicate for this purpose during this period.

2. A candidate for the Degree shall apply to the Registrar, in the prescribed form together with the fee* laid down, so as to reach the Registrar on any day in the month of January or August each year, giving the following particulars :—

- (a) his qualification and attainments and previous study and research, if any ;
- (b) the special subject in which he intends to prosecute research. The subject of research shall be one which relates to the main branch of knowledge chosen for the preliminary Degree (i.e. a Graduate in Arts may choose the subject of Part I or the main subject under Part III ; a Graduate in Honours or a Master of Arts may choose the main subject of his Branch ; a Bachelor of Music may choose the subject of Music ; and a Bachelor of Oriental Learning (Pass or Honours) may choose the main language offered for the Degree) ; and
- (c) the name of the Teacher of this University or the Teacher of an Institution recognised by or affiliated to the University, under whose supervision and guidance he proposes to work, accompanied by the written consent of the Teacher agreeing to supervise his work ; and, in the case of a candidate proposing to do work in an Institution, from the Head of the Institution permitting him to work.

* The fee prescribed for registration for the M. Litt. Degree is Rs. 50/-.

3. Every application shall be considered by the Syndicate; and, if approved, the candidate shall be registered as a candidate for the Degree.

4. Every candidate so registered shall have the option, subject to approval by the Syndicate, and definite recommendation of the supervisor concerned, to submit a thesis for either the Degree of M.Litt., or Ph.D., if he satisfies the conditions regarding the duration of supervised research in each case :

provided, however, as a temporary measure, it shall be competent for the Syndicate on the recommendation of the supervisor concerned, to permit such research students as had already been registered for the M. Litt. Degree prior to the introduction of these Regulations to apply for the Ph. D. Degree.

5 (i). The Institutions for purposes of approval for research shall ordinarily be Departments of the University or Colleges affiliated to or recognised by the University up to the Honours standard in the Branch of Study concerned. The Syndicate however may in regard to First Grade Colleges recognise particular Departments of Study, if it is satisfied both with regard to the facilities available and the qualifications of the person for supervision, such recognition being for a period of time and renewable on such conditions as the Syndicate may lay down. In regard to subjects for which research facilities are not available within the University, the Syndicate may recognise All-India Institutes for the purpose.

(ii) In the case of women students, the Syndicate may recognise a supervisor in a First Grade College in the City of Madras, provided that the facilities available in such a college supplemented by the facilities of the University Library are sufficient for adequate study under the supervisor.

6. After the expiration of the period of post-graduate study and research work, every candidate shall submit with his application for the Degree four copies of the thesis, printed or typewritten, embodying the results of the

research carried out by him, together with the prescribed fee.*

The candidate shall also submit with his application and thesis a certificate from the Supervisor under whom he worked that the thesis submitted is a record of research work done by the candidate during the period of study under him, and that the thesis has not previously formed the basis for the award to the candidate of any Degree, Diploma, Associateship, Fellowship or other similar title; together with a statement from the Supervisor indicating the extent to which the thesis represents independent work on the part of the candidate.

7. The application for the Degree and the thesis must be forwarded so as to be received by the Registrar on any day in the month of January or August and after completion of the research work in accordance with the conditions laid down in Regulation 2 *supra*.
- Date for submission of application and thesis.**

A candidate may also forward, as supplementary papers to his thesis, printed copies of any contribution or contributions to the knowledge of his subject, or any cognate branch, he may have published.

8. The thesis shall be referred by the Syndicate, for report, to a Board of three Examiners; at the discretion of the Board of Examiners the candidate may be asked to submit to an oral examination; provided, however, it shall be competent for the Syndicate, in the case of a Board of Examiners outside India, to arrange for the holding of an oral examination by a Board of Examiners in India, should the first mentioned Board of Examiners consider this necessary prior to coming to a decision; and after receipt from the Board or Boards of the report on the thesis and on the oral examination, if any, the Syndicate may decide whether the candidate has qualified for the Degree or not. The decision of the Syndicate shall be published in the *Fort St. George Gazette*.
- Evaluation of thesis.**

* The fee prescribed for applying for the M.Litt. Degree is Rs. 100/-.

9. The thesis, whether approved or not, shall not be published without the sanction of the Syndicate, and the Syndicate may grant permission for publication under such conditions as it may impose.

10. A candidate shall not be permitted to submit a thesis for the Degree on more than two occasions ; provided, however, it shall be open to the Syndicate, if the Board of Examiners so recommend, to permit the candidate to submit a thesis on a third occasion.

11. Teachers who are working in the University or Teachers in Colleges affiliated to or recognised by the University and who are Heads of Departments in Honours or First Grade Colleges may be permitted to submit theses for the Degree without working under supervision, provided however they register themselves for the Degree beforehand as specified in Regulation 2 *supra*, and provided further the Syndicate is satisfied with the facilities available for research in such institutions. This concession shall not apply to Teachers who are not Heads of Departments. Teachers on the staff of an Affiliated or Constituent College may be permitted to register for a Master's Degree and to prosecute research in the college for that Degree while still working as a member of the staff.

CHAPTER XLVII.

Degree of Doctor of Philosophy (Ph. D.)

[Common to the Faculties of Arts, Science, Medicine, Engineering, Teaching, Agriculture, Veterinary Science, Technology, Fine Arts and Oriental Learning.]

1. A candidate may present himself for the Degree of Doctor of Philosophy (Ph.D.) under the following conditions:—

(a) A Bachelor of Arts, or a Bachelor of Science, or a Bachelor of Music, or a Bachelor of Oriental Learning, of this University or of any other University recognised by the Syndicate as equivalent thereto, five years after having qualified for the Degree of B.A. or B.Sc., etc., and not earlier than three years from the date of registration by the Syndicate for the purpose of pursuing research in accordance with the conditions laid down in Regulation 2 *infra*.

(b) A Bachelor of Arts (Honours), or
A Master of Arts, or
A Bachelor of Science (Honours), or
A Bachelor of Oriental Learning (Honours), or
A Master of Oriental Learning, or
A Bachelor of Medicine and Surgery, or
A Bachelor of Engineering, or
A Bachelor of Science in Agriculture, or
A Bachelor of Veterinary Science, or
A Bachelor of Science in Technology,

of this University, or of any other University recognised by the Syndicate as equivalent thereto, three years after having qualified for the Degree and not earlier than two years from the date of registration by the Syndicate for the purpose of pursuing research in accordance with the conditions laid down in Regulation 2 *infra*.

- (c) A Master of Letters, or a Master of Science of this University or of any other University recognised by the Syndicate as equivalent thereto, one year after having qualified for the Degree and not earlier than one year from the date of registration.
- (d) A Master of Education shall be permitted to submit a thesis for the Ph. D. Degree two years after having qualified for the Master's Degree, and not earlier than two years from the date of registration :

provided that graduates of other Universities shall not be eligible to submit theses for the Degree unless they have resided within the University limits or area, for three years, subsequent to registration, and have pursued a course of research in the University or Constituent or Affiliated College thereof for this period. It shall be competent for the Syndicate, however, in exceptional cases, where proof of research work already done is available, to reduce this period by a maximum of one year:

provided further that candidates registered for the M. Litt. or M.Sc. Degree shall have the option under conditions specified of supplicating for the Ph.D. Degree after the specified period of research under supervision.

2. A candidate for the Degree shall apply to the Registrar in the prescribed form together with the fee* laid down so as to reach the Registrar on any day in the month of January or August each year giving the following particulars :—

- (a) his qualifications and attainments and previous study and research, if any;
- (b) the special subject in which he intends to prosecute research. The subject of research shall be one which relates to the main branch of

* The fee prescribed for registration for the Ph.D. Degree is Rs. 50/-.

knowledge chosen for the first Degree, or in the case of the Faculties of Medicine, Veterinary Science and Agriculture the subjects specified for the M.Sc. Degree; and

- (c) the name of the Teacher of this University or the Teacher of an Institution recognised by or affiliated to this University, under whose supervision and guidance he proposes to work and the name of the Laboratory where necessary or Institute or College where he proposes to conduct his research, accompanied by the written consent of the Teacher, agreeing to supervise his work, and in the case of a candidate proposing to do work in an Institution from the Head of the Institution permitting him to work;

provided that in the case of candidates who have already qualified for the M.Litt. or M.Sc. or M.Ed. Degree of this University, they shall be permitted to submit a thesis on the basis of independent research.

3. Every application shall be considered by the Syndicate, and, if approved, the candidate shall be registered as a candidate for the Degree.

4 (i). The Institutions for purposes of approval for research shall ordinarily be Departments of the University or Colleges affiliated to or recognised by the University up to the Honours standard in the Branch of Study concerned, or Special Departments of Professional Colleges. The Syndicate however may in regard to First Grade Colleges recognise particular Departments of Study, provided it is satisfied both with regard to the Laboratory facilities available and the qualifications of the person for supervision, such recognition being for a period of time and renewable subject to such conditions as the Syndicate may lay down. In regard to subjects for which research facilities are not available within the University, it shall be competent for the Syndicate to recognise, on individual merits, Research Institutes or Departments of an All-India character and the Teachers or Officers employed therein for purposes of enabling persons to pursue research in such Institutes or

Departments with a view to qualifying for the Ph.D Degree of this University.

(ii) In the case of women students, the Syndicate may recognise a supervisor in a First Grade College (in Arts) in the City of Madras, if it is satisfied that the facilities available in such a College supplemented by the facilities of the University Library are sufficient for adequate study under the supervisor.

5. After the expiration of the period of post-graduate study and research, every candidate shall submit with his application for the Degree four copies of the thesis, printed or typewritten, embodying the results of the research carried out by him, together with the prescribed fee.*

Every candidate other than those who have already qualified for the M. Litt., M. Sc. or M.Ed. Degree of this University shall also submit with his application and thesis a certificate from the Teacher under whom he worked that the thesis submitted is a record of research work done by the candidate during the period of study under him, and that the thesis has not previously formed the basis for the award to the candidate of any Degree, Diploma, Associateship, Fellowship, or other similar title, together with a statement from the Teacher indicating the extent to which the thesis represents independent work on the part of the candidate. If the thesis submitted has formed in part the basis for the award of a previous research degree, the candidate shall clearly set forth in a preface or written statement the portion or portions upon which has been based the award of the previous degree.

In the case of those who have already qualified for the Degree of Master of Letters, or Master of Science, or Master of Education, the thesis shall be accompanied by a declaration signed by the candidate that it has been composed by himself independently and a certificate that it has not previously formed the basis for the award of any Degree other than a Master's Degree, Diploma, Associateship, Fellowship or other similar title.

* The fee prescribed for applying for the Ph.D. Degree is Rs. 150/-.

6. The application for the Degree and the thesis must be forwarded so as to be received by the Registrar on any day in the month of January or August and after completion of the research work in accordance with the conditions laid down in Regulation 2 *supra*.
- Date for submission of application and thesis.**

A candidate may also forward as supplementary papers to his thesis printed copies of any contribution or contributions to the knowledge of his subject or of any cognate branch of science he may have published in Journals or Periodicals and the names of such Journals or Periodicals.

Supplementary Papers.

7. The thesis shall be referred by the Syndicate, for report, to a Board of three Examiners; at the discretion of the Board of Examiners the candidate may be asked to submit to an oral examination; provided, however, it shall be competent for the Syndicate, in the case of a Board of Examiners outside India, to arrange for the holding of an oral examination by a Board of Examiners in India, should the first mentioned Board of Examiners consider this necessary prior to coming to a decision. After receipt from the Board or Boards of the report on the thesis and on the oral examination, if any, the Syndicate may decide whether the candidate has qualified for the Degree or not;
- Evaluation of thesis.**

provided that it shall be competent for the Board of Examiners if a candidate fails to reach the standard for the Doctorate to recommend him for the Degree of M. Litt. or M. Sc., as the case may be;

provided, further, in the case of graduates in Medicine and Veterinary Science, who have not previously qualified for the M.Sc. Degree, the candidates shall also be required to take the examination test prescribed in the branch of study for the M.Sc. Degree in addition to the submission of the thesis.

The decision of the Syndicate shall be published in the *Fort St. George Gazette*.

candidate shall not be permitted to submit a thesis for the Degree on more than two occasions ; provided, however, it shall be competent for the Syndicate, if the Board of Examiners so recommend, to permit the candidate to submit a thesis on a third occasion.

9. The thesis, whether approved or not, shall not be published without the sanction of the Syndicate, and the Syndicate may grant permission for the publication under such conditions as it may impose.

10. Teachers who are working in the University or Teachers in Colleges affiliated to or recognised by the University and who are Heads of Departments in Colleges may be permitted to submit theses for the Degree without working under supervision even if they have not previously qualified for the M. Litt. Degree or M.Sc. Degree of this University ; provided however they register themselves for the Degree as specified in Regulation 2 *supra* ; and provided further the Syndicate is satisfied with the facilities available for research in such institutions. This concession shall not apply to Teachers who are not Heads of Departments.

In the case of candidates applying for the Ph. D. Degree in the Faculties of Medicine and Veterinary Science, who have not already qualified for the M.Sc., the examination test prescribed for the M.Sc. shall be passed in addition to the approval of the thesis for the Ph. D. before the Degree is awarded. Should such a candidate pass in one Part of the test, he shall be exempted in that Part at a subsequent appearance.

CHAPTER XLVIII.

Degree of Doctor of Letters (D. Litt.)

*(Common to the Faculties of Arts,
Teaching, Fine Arts and Oriental Learning.)*

1. A Master of Letters or a Doctor of Philosophy of this University may present himself for the Degree of Doctor of Letters (D. Litt.), the highest Degree of this University in the Faculties of Arts, Teaching, Fine Arts and Oriental Learning, three years and two years respectively after having qualified for the Degree of M. Litt., or Ph. D., as the case may be.

2. The candidate shall state in his application the special subject upon a knowledge of which he bases his qualification for the Doctorate. Such subject shall be one which relates to the main branch of knowledge chosen for the preliminary Degree. If the thesis submitted has formed in part the basis for the award of a previous research degree, the candidate shall clearly set forth in a preface or written statement the portion or portions upon which has been based the award of the previous degree. He shall submit with his application four copies of his thesis, which shall ordinarily be in the form of published work, or published papers or books, that contain original contribution to the advancement of knowledge.

*Note:—*A thesis must be on one main theme, and no candidate can submit as a thesis a series of unconnected papers. A series of connected papers can be submitted provided they form one connected theme; and additional papers can be submitted in support of the main thesis only on the understanding that the candidate indicates in the preface the main work, or memoir, or thesis upon which he bases his application.

3. The thesis shall be accompanied by a declaration signed by the candidate that it has been composed by himself independently, and a certificate that the thesis has not previously formed the basis for the award of any Degree, other than a Master's Degree or Ph. D. Degree, Diploma,

Associateship, Fellowship or other similar title. If the thesis has not already been published, it shall be published by the candidate in such manner as the Syndicate shall approve.

Preface and notes. 4. The candidate shall indicate generally in a preface to his thesis, and specially in notes, the sources from which his information is taken, and the extent to which he has availed himself of the work of others ; he shall also state in what respect his investigations appear to him to tend to the advancement of knowledge or otherwise form a valuable contribution to the literature of the subject dealt with.

Date for submission of application and thesis. 5. The application and the thesis must be forwarded, with the prescribed fee*, so as to reach the Registrar on any day in the month of January or August, and after the lapse of the period mentioned in Regulation 1 *supra*.

Additional papers. 6. The candidate may, with the thesis, forward printed copies of any original contribution or contributions to the knowledge of his subject or of any cognate subject which may have been published by him independently or conjointly and upon which he relies in support of his candidature.

Evaluation of thesis. 7. The thesis, together with any other contributions and papers submitted, shall be referred by the Syndicate, for report, to a Board of three Examiners; at the discretion of the Board of Examiners the candidate may be asked to submit to an oral examination ; provided, however, it shall be competent for the Syndicate, in the case of a Board of Examiners outside India, to arrange for the holding of an oral examination by a Board of Examiners in India, should the first mentioned Board of Examiners consider this necessary prior to coming to a decision. After receipt from the Board or Boards of the report on the thesis and on the oral examination, if any, the Syndicate may decide whether the candidate has qualified for the Degree or not ;

* The fee prescribed for applying for the D.Litt. Degree is Rs. 200/-.

provided that it shall be competent for the Board of Examiners, if a candidate fails to reach the standard for the D. Litt. Degree, to recommend him for the Degree of Ph. D.

The decision of the Syndicate shall be published in the *Fort St. George Gazette*.

8. A candidate shall not be permitted to submit a thesis for the Degree on more than two occasions; provided, however, it shall be competent for the Syndicate, after having taken into consideration the remarks of the Board of Examiners, to permit a candidate to submit a thesis on a third occasion.

9. The Syndicate may, in exceptional circumstances, on the record of approved work already published and assessed by an independent Committee appointed by the Syndicate, permit a Degree holder in the Faculty of Arts, Teaching, Fine Arts and Oriental Learning of this University to supplicate for the highest Degree (D.Litt.) of this University without any preliminary Research Degree qualification to his credit, provided that 7 years have elapsed from the date of taking his first Degree.

10. It shall be competent for the Syndicate to permit a candidate to apply for the D. Litt. Degree under the Regulations in force prior to March 1945, provided it is satisfied that he has been engaged in pursuing research for this purpose prior to the passing of these Regulations.

This Regulation shall remain in force until the 31st January 1947.

CHAPTER XXIX.

Degree of Bachelor of Science (Pass).

1. Candidates for the B.Sc. Degree Examination shall be required to have passed the Intermediate Examination in Arts and Science of this University, and to have satisfied the requirements under (i) of (c) Part III of Regulation 3 of the Chapter *re* the Intermediate Examination in Arts and Science as prescribed, or an examination accepted by the Syndicate as equivalent thereto under conditions, if any, prescribed and have subsequently undergone a prescribed course of study in a Constituent or an Affiliated College for a period of not less than two academic years or six terms.

2. The course for the B.Sc. Degree shall comprise the following subjects, according to syllabuses to be prescribed from time to time.

Part I—Language Course.

The course shall last for a period of one academic year.

Course of Study Any one of the following languages,
—Part I. at the option of the candidate:—

| | | | |
|----------------|-------------|--------------|------------|
| (i) English | | | |
| (ii) Classical | | { Sanskrit. | Arabic. |
| | | { Greek. | Persian. |
| | | { Latin. | Hebrew. |
| | | | Syriac. |
| | (a) Foreign | French. | German. |
| (iii) Modern | (b) Indian | { Tamil. | Oriya. |
| | | { Telugu. | Hindi. |
| | | { Kannada. | Bengali. |
| | | { Malayalam. | Burmese. |
| | | { Urdu. | Sinhalese. |
| | | { Marathi. | |

English.—The course shall be: (1) Composition on matter supplied by books set for perusal; and (2) the study in detail of certain prescribed books in Modern-Prose.

Indian Languages.—The course shall be: (1) Translation from the selected language into English and *vice versa*; and (2) Composition on matter supplied by books set for non-detailed study.

Other Languages.—The course shall be: (1) Translation from the selected language into English and *vice versa*; and (2) Prescribed text-books.

Part II.

Course of Study The course shall last for a period
—Part II— of two academic years.
Optional subjects.

Any three of the following branches of knowledge, one of which shall be taken as the main subject and the other two as subsidiary subjects:—

Mathematics.

Statistics.*

Physics.

Chemistry.

Botany.

Zoology.

Geology.

Physiology.

Mechanical Engineering.

Electrical Engineering.

Anthropology.

* If Statistics is taken as a main subject, Mathematics should be one of the subsidiary subjects.

provided that Mechanical Engineering and Electrical Engineering shall be taken only as subsidiary subjects and with Physics as the main subject;

provided, however, that Anthropology shall be taken only as a subsidiary subject and with Botany, Zoology or Geology as the main subject;

or Home Science;

provided, however, that only those who have taken Chemistry, either Natural Science or Physics, and one other subject under Part III of the Intermediate Examination of this

University or the corresponding subjects of an examination of some other University accepted by the Syndicate as equivalent thereto, shall be permitted to take *Home Science* under Part II of the course.

Any candidate, who is a member of the Madras University Officers' Training Corps, and has passed Military Science—Certificate 'A', shall have the option of taking Military Science—Certificate 'B'—in place of one of the subsidiary subjects or as an additional subject under Part II (for syllabus *vide* **Appendix V**).

Candidates offering Military Science as an additional subject shall be deemed to have passed the examination in the Subsidiary Subjects if they pass in one of the two subsidiary subjects and in Military Science.

NOTE.—Candidates desirous of proceeding to a Professional or Honours Degree Course shall satisfy the requirements laid down for admission to these courses, and may take Military Science—Certificate 'B'—as an additional subject.

The course of study in the main subjects (*see* Regulation 3 *infra* for scheme of examination) shall be according to syllabuses to be prescribed from time to time (for syllabuses *vide* **Appendix V**).

The course of studies in the several subjects for the subsidiary standard shall be the same as for the B.A. Degree Examination.

On the first day of the practical examination in the main subject candidates must submit the laboratory note-books containing the drawings and other records relating to all the practical work performed by them during the period of study for the examination duly certified by the Professor or Lecturer as a *bona fide* record of work done by the candidates.

Candidates for examination in Botany shall submit in addition to their laboratory note-books their collection of plants and candidates for examination in Geology shall submit their field notes in addition to their geological collections.

Scheme of Examination—Part I. 3. The scheme of examination shall be as follows:—

Part I.—Language.

English.—The examination shall consist of two papers:—

| | Hours. | Marks. |
|----------------------------|--------|------------|
| 1. English Prose ... | 3 | 100 |
| 2. English Composition ... | 3 | 100 |
| Total ... | | <u>200</u> |

Classical and Modern (Foreign) Languages.—The examination shall consist of two papers:—

| | Hours. | Marks. |
|------------------------------|--------|------------|
| 1. Translation ... | 3 | 100 |
| 2. Prescribed text-books ... | 3 | 100 |
| Total ... | | <u>200</u> |

Modern (Indian) Languages.—The examination shall consist of two papers:—

| | Hours. | Marks. |
|--------------------|--------|------------|
| 1. Translation ... | 3 | 100 |
| 2. Composition ... | 3 | 100 |
| Total ... | | <u>200</u> |

Part II.

Mathematics—Main.

The examination shall be a written one and shall consist of the following papers:—

| | Hours. | Marks. |
|--|--------|------------|
| Scheme of Examination—Part II. 1. Algebra and Trigonometry. | 3 | 100 |
| 2. Geometry ... | 3 | 100 |
| 3. Calculus ... | 3 | 100 |
| 4. Dynamics ... | 3 | 100 |
| Total ... | | <u>400</u> |

Mathematics—Subsidiary.

The examination shall be a written one and shall consist of the following papers :—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Paper I (Algebra and Calculus) | 3 | 75 |
| 2. Paper II (Trigonometry and Analytical Geometry) ... | 3 | 75 |
| Total | | 150 |

Statistics—Main.

The examination shall be both written and practical, and shall consist of the following papers :—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Statistics—Paper I—Probability, distributions, interpolation and curve fitting. Collection of data and diagrammatic representation. Analysis of Time Series ... | 3 | 125 |
| 2. Statistics—Paper II—Measures of central tendency, dispersion, two variables and sampling. Analysis of variance ... | 3 | 125 |
| Practical Examination I ... | 2½ | 60 |
| Practical Examination II ... | 2½ | 60 |
| Practical Note-Book ... | ... | 30 |
| Total | | 400 |

Statistics—Subsidiary.

The examination shall be both written and practical, and shall consist of the following :—

| | Hours. | Marks. |
|--------------------------------|--------|--------|
| Statistics—Statistical Method. | 3 | 75 |
| Practical Examination ... | 3 | 75 |
| Total | | 150 |

Physics—Main.

The examination shall be both written and practical, and shall consist of the following papers :—

| | Hours. | Marks. |
|-----------------------------------|--------|--------|
| 1. Dynamics and Hydrostatics ... | 3 | 70 |
| 2. Properties of Matter and Heat. | 3 | 70 |
| 3. Light and Sound ... | 3 | 70 |
| 4. Electricity and Magnetism ... | 3 | 70 |
| Practical Examination ... | 6 | 100 |
| Laboratory note-books ... | ... | 20 |
| Total ... | | 400 |

Physics—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers :—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Hydrostatics, Properties of Matter and Heat ... | 2 | 50 |
| 2. Light, Electricity and Magnetism. | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total | | 150 |

Chemistry—Main.

The examination shall be both written and practical, and shall consist of the following papers :—

| | Hours. | Marks. |
|---------------------------------|--------|--------|
| 1. General Chemistry ... | 3 | 80 |
| 2. Inorganic Chemistry ... | 3 | 80 |
| 3. Organic Chemistry ... | 3 | 100 |
| Practical Examination (Organic) | 4 | 40 |
| Do. (Inorganic) | 6 | 80 |
| Laboratory note-books ... | ... | 20 |
| Total | | 400 |

Chemistry—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers:—

| | Hours. | Marks. |
|------------------------------------|--------|--------|
| 1. General and Inorganic Chemistry | 3 | 60 |
| 2. Organic Chemistry ... | 2 | 40 |
| Practical Examination ... | 3 | 50 |
| Total | | 150 |

Botany—Main.

The examination shall be both written and practical, and shall consist of the following papers:—

| | Hours. | Marks. |
|---|--------|--------|
| 1. Written Examination— | | |
| Paper I—Thallophytes, Bryophytes, Pteridophytes, Gymnosperms and His- tology ... | 3 | 100 |
| 2. Written Examination— | | |
| Paper II—Morphology and Taxonomy of Angiosperms, Plant Physiology and Gene- ral principles ... | 3 | 100 |
| Practical Examination I ... | 3 | 70 |
| Do. II ... | 3 | 70 |
| Laboratory note-books ... | ... | 40 |
| Collection of plants ... | ... | 20 |
| Total | | 400 |

Botany—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers:—

| | Hours. | Marks. |
|---|--------|--------|
| 1. Written Examination— | | |
| Paper I—Thallophytes, Bryophytes, Pteridophytes, Gymnosperms and His- tology | 2 | 50 |
| 2. Written Examination— | | |
| Paper II—Morphology and Taxonomy of Angiosperms, Plant Physiology and Gene- ral principles | 2 | 50 |
| Practical Examination | 3 | 50 |
| Total ... | | 150 |

Zoology—Main.

The examination shall be both written and practical, and shall consist of the following papers:—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Written Examination— | | |
| Paper I—(Invertebrata) | 3 | 120 |
| 2. Written Examination— | | |
| Paper II—(Chordata) | 3 | 120 |
| Practical Examination I | 3 | 60 |
| Do. II | 3 | 60 |
| Laboratory note-books | | 40 |
| Total ... | | 400 |

Zoology—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers :—

| | Hours. | Marks. |
|----------------------------|--------|--------|
| 1. Written Examination— | | |
| Paper I—(Invertebrata) ... | 2 | 50 |
| 2. Written Examination— | | |
| Paper II—(Chordata) ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total | | 150 |

Geology—Main.

The examination shall be both written and practical, and shall consist of the following papers :—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Written Examination— | | |
| Paper I—All divisions other than Mineralogy and Petrology | 3 | 100 |
| 2. Written Examination— | | |
| Paper II—Mineralogy and Petrology | 3 | 100 |
| Practical Examination— | | |
| —Paper I | 3 | 75 |
| Do. —Paper II | 3 | 75 |
| Laboratory note-books | | 25 |
| Collection and field work notes | | 25 |
| Total ... | | 400 |

Geology—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers:—

| | Hours. | Marks. |
|---|--------|--------|
| 1. Written Examination— Paper I—All divisions other than Mineralogy and Petrology | 2 | 50 |
| 2. Written Examination— Paper II—Mineralogy and Petrology | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total | | 150 |

Physiology—Main.

The examination shall be both written and practical, and shall consist of the following papers:—

| | Hours. | Marks. |
|-----------------------------|--------|--------|
| Written Examination—Paper I | 3 | 120 |
| Do. „ II | 3 | 120 |
| Practical Examination— „ I | 3 | 60 |
| Do. „ II | 3 | 60 |
| Laboratory note-books | | 40 |
| Total | | 400 |

Physiology—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers:—

| | Hours. | Marks |
|---------------------------------|--------|-------|
| Written Examination—Paper I ... | 2 | 50 |
| Do. „ II ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total | | 150 |

Mechanical Engineering—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers :—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Written Examination— | | |
| Paper I—Machine Design... | 2 | 50 |
| 2. Written Examination— | | |
| Paper II—Heat Engines, Steam Engines, Fuels and Boilers and Internal Com- bustion Engines ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total | | 150 |

Electrical Engineering—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers :—

| | Hours. | Marks. |
|--|--------|--------|
| 1. Paper I—Direct current (ex- cluding Storage Batteries and Illumination) ... | 2 | 50 |
| 2. Paper II—Alternating Current and Storage Batteries and Illumination ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total | | 150 |

Anthropology—Subsidiary.

The examination shall be both written and practical, and shall consist of the following papers :—

| | Hours. | Marks. |
|--|--------|--------|
| Written Examination Paper I— (Physical Anthropology and Prehistory) ... | 2 | 50 |
| Written Examination Paper II— (Social Anthropology and Mater- ial Culture) ... | 2 | 50 |
| Practical Examination ... | 3 | 50 |
| Total | | 150 |

Home Science.

The examination shall be both written and practical in all subjects except Economics, where it shall be only written, and the scheme of examination shall be as follows:—

| | Hours. | Marks. |
|--------------------------------|--------|-----------|
| I. Economics— | | |
| (1) Household Economics | 3 | 75 |
| (2) (a) Rural Economics | 3 | 100 |
| (b) Social Economics | | |
| II. Bacteriology and Hygiene | 3 | 75 |
| III. Physiology | 3 | 75 |
| IV. Nutrition | 3 | 75 |
| V. Applied Physical Science— | | |
| (a) Chemistry (60) | | 100 |
| (b) Physics (40) | | |
| <i>Practical Examination—</i> | | |
| Bacteriology and Hygiene | 3 | 40 |
| Physiology ... | 3 | 40 |
| Nutrition ... | 3 | 40 |
| Applied Physical Science | 3 | 40 |
| <i>Practical Record Books—</i> | | |
| Bacteriology and Hygiene | .. | 10 |
| Physiology ... | .. | 10 |
| Nutrition ... | . | 10 |
| Applied Physical Science | . | 10 |
| Total | | <hr/> 700 |

Each candidate shall submit his Practical Record Books in Bacteriology and Hygiene, Physiology, Nutrition and Applied Physical Science containing the record of all his practical work performed during the period of his study. The records shall be countersigned by the Professors under whom the candidate has worked to certify them to be *bona fide* records of work performed by the candidate. The Professors shall present with the record books an assessment of their value. The record books shall be submitted on the first day of the practical examination to the Examiners engaged in conducting the examination, and the final responsibility for allotment of marks on the practical record books shall rest entirely with the Examiners.

The scheme of examination in Military Science—Certificate 'B'—of the Madras University Officers' Training Corps shall be as laid down in the syllabus (*vide* Appendix V).

4. No candidate shall be eligible for the Degree of Bachelor of Science until he has completed the course of study prescribed and has passed the examination in the subjects prescribed for the course in Regulations 2 and 3 *supra*.

5. A candidate for the B. Sc. Degree Examination may present himself for Part I at the end of the first year of the course and thereafter may at his option present himself for the whole or for either Part at any one time.

6. A candidate shall be declared to have passed Part I of the examination if he obtains not less than 35 per cent. of the total marks. A candidate taking *Home Science* shall be declared to have passed Part II of the examination if he obtains 30 per cent. in each of the following divisions—(a) Economics, (b) Written Examination in the other subjects (Bacteriology and Hygiene, Physiology, Nutrition and Applied Physical Science), and (c) Practical Examination in Bacteriology and Hygiene, Physiology, Nutrition and Applied Physical Science; and 35 per cent. of the total. In all other subjects a candidate shall be declared to have passed Part II of the examination if he obtains not less than (1) 30 per cent. in each of the two subsidiary subjects, (2) except in the case of Mathematics, 30 per cent. in each of the divisions of the main subject (a) written examination, and (b) practical examination; (3) 35 per cent. in the total for the main subject and (4) 35 per cent. of the grand total (main and subsidiary subjects). All other candidates shall be deemed to have failed in the examination.

A candidate offering Military Science—Certificate 'B'—of the Madras University Officers' Training Corps either as a subsidiary subject or as an additional subject shall be required to sit for the examination conducted by the Army, and to secure a pass therein, according to the standard laid down by the Army from time to time.

Provided that until such time as provision is made for holding the examination for Certificate 'A' or 'B' twice yearly, it shall be open to a candidate who has gained pass marks in Certificate 'B' to claim credit as having already passed in the Certificate as a subject for the B.Sc. Degree Examination and to appear only in the remaining subjects for the B.Sc. Degree Examination at the next or any succeeding examination.

Candidates who fail to obtain a pass in Military Science—Certificate 'B'—and desire to complete the B.Sc. Degree Examination with another subsidiary subject under Part II in place of Military Science—Certificate 'B'—shall be permitted to do so without further attendance (theory and practical) in one of the subsidiary subjects, provided they pass the examination in accordance with the conditions prescribed in the Regulations.

7. There shall be separate lists of the successful candidates in each part. Candidates obtaining not less than 60 per cent. of the total marks in Part I shall be declared to have passed with distinction in the language taken under Part I.

In Part II, candidates who obtain not less than 60 per cent. of the total marks shall be placed in the first class, those who obtain less than 60 per cent. but not less than 50 per cent. of the total marks, shall be placed in the second class and all other successful candidates shall be placed in the third class.

8. Nothing in these Regulations shall prevent a candidate who has passed the B. A. (Honours) Preliminary Examination or Part I of the B.Sc. (Honours) Degree Examination of this University from appearing for Part II of the B.Sc. (Pass) Degree examination on the production of the prescribed certificates of attendance in the subjects under Part II, to qualify for the B.Sc. Degree. He shall be exempted from examination in Part I—Language—of the B.Sc. Degree Examination.

9. A candidate who has qualified for the B.A. Degree in Group (ii-a), or (ii-b) or (iii) under the Old Regulations or in Group (ii) under the New Regulations shall be permitted to appear for the B.Sc. Degree Examination after one year's course in a Constituent or an Affiliated College, provided

**B.A. to proceed
for B.Sc.**

- (a) he takes as his main subject for the examination a Science subject different from the main and subsidiary subjects taken by him for the B.A. Degree Examination, in which case he shall be exempted from examination in the subsidiary subjects, and the percentages of marks secured by him in the B.A. Degree Examination in the main and subsidiary subjects shall be taken as the percentages of his marks in the two subsidiary subjects;

or

- (b) he takes as his main subject for the examination the subsidiary subject which he took for the B.A. Degree Examination, in which case he shall be required to offer as a subsidiary subject a Science subject other than his main subject for the B.A. Degree Examination, and shall be exempted from examination in a second subsidiary subject, and the percentage of marks secured by him in the B.A. Degree Examination in the main subject shall be taken as the percentage of his marks in the second subsidiary subject.

Candidates coming under this Regulation shall be exempted from examination in Part I—Language.

10. A candidate who has qualified for the B.A. Degree in Mathematics under Group (i) Old Regulations or under Group (i-a) or (i-b) New Regulations or the B.A. (Honours) Degree in Branch I-A—Mathematics, shall be permitted to appear for the B. Sc. Degree Examination after one year's course in a Constituent or an Affiliated College, provided he takes for his course two subjects other than Mathematics, one of which shall be his main subject and the other his subsidiary subject (other than Mathematics).

He shall be exempted from examination in Part I—English, and in Mathematics as a subsidiary subject, and shall be credited with the percentage of marks secured by him in the subject in the B.A. or B.A. (Honours) Degree Examination.

11. A candidate who has qualified for the B.A. Degree in a Group other than any of those specified in Regulations 9 and 10 *supra* shall be permitted to appear for the B.Sc. Degree Examination after a two years' course in a Constituent or an Affiliated College; he shall be exempted from examination in Part I—Language.

12. A candidate who has qualified for the B.Sc. Degree **A B.Sc. may** of this University shall be permitted to **qualify in** reappear for the B.Sc. Degree Examination **another subject.** with a view to qualifying for the Degree in an additional subject after one year's course in a Constituent or an Affiliated College, provided that

either

- (a) he takes as his main subject for the examination a Science subject different from the main and subsidiary subjects taken by him for the previous B.Sc. Degree Examination, in which case he shall be exempted from examination in the subsidiary subjects;

or

- (b) if he takes as his main subject for the examination one of the subsidiary subjects which he took for the B.Sc. Degree Examination on the previous occasion and offers a new subsidiary subject, different from those (main or subsidiary) taken previously for the B.Sc. Degree Examination, he shall be exempted from examination in the second subsidiary subject.

He shall also be exempted from examination in Part I—Language.

A candidate coming under the provisions of sub-paragraph (a) of this Regulation shall be declared to have passed the examination if he obtains not less than 35 per cent. of the marks in the main subject and not less than 30 per cent. in each of the divisions in the main subject.

A candidate coming under the provisions of subparagraph (b) of this Regulation shall be declared to have passed the examination if he obtains not less than (1) 30 per cent. in the new subsidiary subject, (2) 30 per cent. in each of the divisions in the main subject, (3) 35 per cent. of the total marks in the main subject; and (4) 35 per cent. of the grand total (main and new subsidiary subjects).

Such candidates under the above Regulation shall not be admitted at a Convocation a second time, but special Post Graduate Certificates setting forth the further subject or subjects passed by them and the dates of such examination shall be given to them.

Successful candidates under the above Regulation shall be placed in a separate list. They shall not be eligible for prizes or medals awarded by the University.

13. A candidate who has qualified for the B.A. or B.Sc. Degree of this University with Physics, Chemistry or Physiology as Main or Subsidiary subject and desires to qualify further for the B.Sc. Degree with *Home Science* under Part II shall not, however, be required to produce the prescribed certificates or to pass in the particular subject or subjects in which he has already qualified for the B.A. or B.Sc. Degree.

It shall, however, be competent for the Syndicate to permit a candidate who has qualified for the B.Sc. Degree of this University with any one of the subjects Chemistry, Physiology and Physics as Main and the other two as Subsidiary subjects, to appear for the B.Sc. Degree Examination with *Home Science* under Part II after one year's course in a Constituent or an Affiliated College. He shall not be required to produce the prescribed certificates or to pass in the above three subjects.

He shall be exempted from examination in Part I—Language.

Such a candidate shall, however, pay the prescribed fee for the whole Part.

He shall not be admitted at a Convocation a second time, but a special Post-Graduate Certificate setting forth the further subject or subjects passed by him and the date of such examination shall be given to him.

Successful candidates under the above Regulation shall be placed in a separate list. They shall not be eligible for prizes or medals awarded by the University.

14. Candidates who appear in January-February 1944 either for Certificate 'A' or 'B' shall be given the exemptions as laid down in resolution 5-A of the Academic Council, dated the 18th February 1943. Such candidates who have been exempted for Certificate 'A' will not, however, be eligible for any further exemption for the same examination (B.Sc.). Should they however pursue their studies of Military Science under the revised Regulations, and apply for Certificate 'B' during their academic course of study for the B.Sc., the exemptions under the revised Regulations will be applicable to them also.

Candidates offering Military Science as an additional subject shall be deemed to have passed the examination in the Subsidiary Subjects if they pass in one of the two subsidiary subjects and in Military Science.

NOTE.—The Regulations governing Certificate 'B' adopted by the Academic Council at its meeting held on 18th February 1943, shall cease to be in force from July 1944.

CHAPTER L.

Degree of Bachelor of Science (Honours).

Conditions— 1. Candidates for the examination
Admission to of Bachelor of Science (Honours) Degree
Examination. shall be required :

either

A

(1) to have passed the Intermediate Examination in Arts and Science of this University and to have satisfied the requirements under (i) of (c) Part III of Regulation 3 of the Chapter *re* Intermediate Examination in Arts and Science or an examination accepted by the Syndicate as equivalent thereto ;

and (2) to have undergone subsequently a further course of study in a Constituent or an Affiliated College for a period of not less than three academic years or nine terms ;

or

B

(1) to have qualified for the Degree of Bachelor of Science (B.Sc.) or for the Degree of Bachelor of Arts (B.A.) as prescribed in this University or to have passed a Degree examination of some other University accepted by the Syndicate as equivalent thereto ;

and (2) to have undergone subsequently a further course of study in a Constituent or an Affiliated College for a period of not less than two academic years or six terms.

Course of 2. The course shall comprise the
Study. study of—

PART I.

English or French or German.

PART II.

Optional Branch.

I-A. Mathematics

I-B. Statistics

or

One of the following as Main subject—

II. Physics.

III. Chemistry.

- IV. Botany.
- V. Zoology.
- VI. Geology.
- VII. Physiology.

and any one of the following (other than the subject taken as the Main subject) as a Subsidiary subject :—

- 1. Mathematics.
- 2. Physics.
- 3. Chemistry.
- 4. Botany.
- 5. Zoology.
- 6. Geology.
- 7. Physiology.

Part I.—English or French or German.—The course of study shall be the same as for English or French or German under Part I of the B.Sc. Degree course.

Part II.—Optional Branch—Main subject.

The course of study in the Main subjects shall be as detailed below :—

I-A.—Mathematics.

A candidate shall be required to have a sound knowledge of—

(a) Pure Mathematics—

- (1) Pure Geometry including Projective Geometry.
- (2) Algebra and Theory of Equations.
- (3) Plane Trigonometry.
- (4) Differential and Integral Calculus, including Reimann Integration, Cauchy's Theorem on Contour Integration and Fourier's Series.
- (5) Elementary Differential Equations.
- (6) Co-ordinate Geometry of Two Dimensions
- (7) Solid Geometry—The Line, Plane, Sphere and Surfaces of the Second Degree.

(b) Applied Mathematics—

- (1) Statics, excluding the Theory of Potentials
- (2) Dynamics of a Particle.

(3) Dynamics of a Rigid Body—Motion in two dimensions.

(4) Hydrostatics.

(5) Astronomy, General and Elementary Spherical.

(c) Two of the following subjects at the option of the candidate:—

| | | |
|---------------------------------|-----|--------------------|
| *(1) Dynamics | ... | A Special Subject. |
| (2) Astronomy | ... | Do. |
| (3) The Potentials | ... | Do. |
| (4) Elasticity | ... | Do. |
| (5) Hydro-dynamics and Sound | ... | Do. |
| (6) Heat | ... | Do. |

A candidate shall give notice, through his college, a year before the date of the examination, of the particular subjects he proposes to take.

I-B.—Statistics.

A candidate shall be required to have a sound knowledge of:—

(a) Pure Mathematics [Same as for B.Sc. (Honours) Branch I-A—Mathematics.]

(b) General Algebra.

(c) Statistical Methods including theory of probability and calculus of finite differences.—

1. Statistics I. Probability, distributions and curve fitting.
2. Statistics II. Interpolation, variation and correlation and analysis of time series.
3. Statistics III. Sampling, analysis of variance, estimation and testing of hypothesis.

II. Physics.

A candidate shall be required to have a sound knowledge of the experimental side of the following subjects, and also such knowledge of the theoretical side of each as

* For the Special Subjects prescribed under each head, please see APPENDIX VI.

may be obtained by the applications of the Calculus, and simple differential equations:—

- (1) Properties of Matter.
- (2) Heat.
- (3) Geometrical and Physical Optics.
- (4) Sound.
- (5) Magnetism and Electricity.
- (6) Modern Physics.

A candidate shall also be required to have a special knowledge, experimental and theoretical, of *one* of the following subjects, the choice of the subject being left to the option of the candidate:—

- (1) The Kinetic Theory of Gases and its applications.
- (2) Radio-activity.
- (3) Radiation—A. Electrical Waves, Wireless Telegraphy and Telephony.
- (4) Radiation—B. X-Rays and their applications.
- (5) Spectroscopy and its applications.

or

A Second Paper in Modern Physics as defined by a syllabus.

A candidate shall give notice, through his college, a year before the date of the examination, of the particular subject he proposes to take.

III. Chemistry.

A candidate shall be required to show that he has made a more comprehensive study than for the B.Sc. Degree of the four main divisions of the subject:—

- (1) General Theoretical Chemistry including its historical development.
- (2) Physical Chemistry.
- (3) Inorganic Chemistry.
- (4) Organic Chemistry.

A candidate shall also be required to have a special knowledge, experimental and theoretical, of *one* of the following subjects, the choice of subject being left to the option of the candidate:—

- (1) Electro-Chemistry.
- (2) Mineralogy and Elementary Crystallography.

- (3) Elementary Crystallography and Stereo-Chemistry.
- (4) Metallurgical Chemistry.
- (5) Tinctorial Chemistry.
- (6) Biochemistry.
- (7) Chemistry of the Rare Earths and Radio Elements.

A candidate shall give notice, through his college, a year before the date of the examination of the particular subject he proposes to take.

A candidate shall be required to be practically familiar with (a) The ordinary methods of qualitative inorganic analysis, (b) The chief volumetric and gravimetric methods of analysis of inorganic compounds including simple gas analysis, (c) The methods of detection and estimation of the more important organic radicals and the preparations of pure organic compounds, (d) The estimation of carbon, hydrogen, nitrogen, sulphur and halogens in organic compounds, (e) The more important methods of physico-chemical measurements.

IV. Botany.

A candidate shall be required to have made a comprehensive study of the following branches of Botany:—

- (1) Morphology and Taxonomy of—
 - (a) Thallophytes.
 - (b) Bryophytes.
 - (c) Pteridophytes.
 - (d) Gymnosperms.
 - (e) Angiosperms.
- (2) Ecological and Geographical Distribution of Phanerogams with special reference to South India.
- (3) Fungi, specially with reference to their economic importance.
- (4) Plant Physiology.
- (5) Plant Histology.
- (6) Physiological Anatomy.
- (7) Palæobotany.

- (8) Cytology and Genetics.
- (9) Principles of Evolution and Heredity.
- (10) The chief Economic Plant Products.

Each candidate shall also be required to present as a special subject a topic chosen from one of the sections mentioned above. He must give notice, through his college, a year before the examination, of the particular subject he proposes to present.

V. Zoology.

Theory.—The course shall be the same as for the B.Sc. Pass (Zoology Main) but treated more fully. In addition, candidates shall be expected to have made a special study of any one particular group of animals or any one of the following branches of Zoology:—

Cytology, Genetics, Histology, Invertebrate Embryology (comprising the study of the following groups—*Porifera*, *Annelida*, *Mollusca*, *Arthropoda* and *Echinodermata*), Animal Ecology, Marine Zoology, Entomology, Parasitology, Palæontology and Endocrinology.

Practical.—The practical work will not be confined to the types enumerated for the B.Sc. (Pass). Candidates may be required to dissect any of the more common type of animals included in the groups prescribed, to identify specimens with the aid of manuals, to report on zoological collections, to make microscopic preparations, to cut sections with the microtome and to show their practical acquaintance with the methods employed in studying the embryology of the chick.

Each candidate shall give notice, through his college, a year before the date of the examination, of the special subject he proposes to present.

VI. Geology.

The course shall be the same as for the B.Sc. Pass (Geology Main) but treated more fully with the following additions:—

Mineralogy and Crystallography.—The thirty-two types of crystal symmetry, theories of crystal structure,

systems of crystal notation, zonal characters, crystal projections and drawings; twin crystals, grouping and irregularities of crystals, parting planes, percussion figures, etched figures, etc., use of the Reflecting Goniometer. General mathematical relations of crystals and measurement of crystal angles.

Description and determination of minerals by chemical and physical tests.

The chief ores and minerals of commercial value; their distribution, occurrence, with special reference to Indian examples and their use; nature and structure of chief types of ore deposits.

Petrology.—The principles underlying the genesis and classification of rocks. Mechanical separation of rock constituents; examination of sands; methods of the preparation of rock sections for the microscope. Optical properties of crystals. Practical determination of the optical characters of the chief rock-forming minerals with the petrological microscope, including the use of convergent light. Determination of the nature and history of rocks by means of microscope.

Structural and Field Geology.—The relationships of structure of relief, drainage and economics. The composition and structure of rock masses as influencing scenery. Weathering and formation of soils. Each candidate is required to map and describe from his own personal observations the geology of an area selected by himself with the approval of the Professor.

Stratigraphy and Palaeontology.—The geological formations with their lithology, sub-divisional fossils, correlation and economics. The physical geography and vulcanicity of the different periods; general distribution of existing faunas and floras and their relation to those of former geological periods; morphological characters of the more important types of fossils; drawing of fossils; Geology of India brought up to date.

Candidates shall also be required to present a special subject out of the subjects prescribed. A candidate shall give notice, through his college, a year before the date of the examination, of the particular subject he proposes to take.

VII. Physiology.

The course shall be the same as for B.Sc. (Pass) Physiology (Main), but candidates shall be required to show a more comprehensive knowledge of the subject than required for B.Sc. (Pass) and shall be required to have made a special study of one of the following branches of the subject:—

1. Blood and circulation.
2. Respiration.
3. Nutrition.
4. Neurology.
5. The sense organs.
6. Endocrinology.
7. Comparative Physiology.

Each candidate shall give notice, through the college, a year before the date of the examination, of the special Branch of the subject he proposes to present.

Subsidiary Subjects.

The course of study in the subsidiary subjects under Part II shall be the same as for Part II of the B.Sc. Degree course.

3. The scheme of examination shall be as follows:—

PART I—ENGLISH OR FRENCH OR GERMAN.

The examination shall be the same as for the B.Sc. (Pass) Degree, Part I, in the languages, *viz.*, English, French or German, and shall consist of two papers, as follows:—

Scheme of Examination.*English.*

| | Hours. | Marks. |
|-------------|--------|--------|
| Prose | 3 | 100 |
| Composition | | 100 |
| Total | | 200 |

French or German.

| | Hours. | Marks. |
|-----------------------|--------|--------|
| Translation | 3 | 100 |
| Prescribed text-books | 3 | 100 |
| Total | ... | 200 |

PART II—OPTIONAL BRANCH.

*I-A. Mathematics.***Scheme of Examination.**

The examination shall be a written one and shall consist of the following papers :—

| | | | Hours. | Marks. |
|-------|---------------------|-----|--------|--------|
| * 1. | Pure Mathematics | I | 3 | 175 |
| * 2. | Do. | II | 3 | 175 |
| * 3. | Do. | III | 3 | 175 |
| 4. | Applied Mathematics | I | 3 | 175 |
| 5. | Do. | II | 3 | 175 |
| 6. | Do. | III | 3 | 175 |
| 7. | Optional subject | I | 3 | 175 |
| 8. | Do. | II | 3 | 175 |
| Total | | | | 1,400 |

The papers shall contain questions on the principles developed in the ordinary treatment of the subject as well as exercises of moderate difficulty arising therefrom.

I-B. Statistics.

The examination shall be both written and practical, and the scheme of examination shall be as follows :—

| | | | | Hours. | Marks. |
|------|-----------------------|-----|-----|--------|--------|
| * 1. | Pure Mathematics | I | ... | 3 | 175 |
| * 2. | Do. | II | ... | 3 | 175 |
| * 3. | Do. | III | ... | 3 | 175 |
| 4. | General Algebra | | ... | 3 | 175 |
| 5. | Statistics | I | ... | 3 | 175 |
| 6. | Do. | II | ... | 3 | 175 |
| 7. | Do. | III | ... | 3 | 175 |
| | Practical Examination | | ... | 3 | 150 |
| | Record Note-books | | ... | | 25 |
| Tot | | | .. | | 1,400 |

Each candidate shall submit his note-book containing the record of all his practical work performed during the period of study for the examination. The record shall be countersigned by the Professor under whom the candidate

* These three papers are common to Branches I-A and I-B.

has worked to certify it to be a *bona fide* record of work performed by the candidate. It shall be submitted at the time of the practical examination to the Examiners engaged in conducting the examination.

II. Physics.

Scheme of Examination. The examination shall be both written and practical, and the scheme of examination shall be as follows :—

| | Hours. | Marks |
|---|--------|-------|
| 1. Properties of Matter | 3 | 125 |
| 2. Heat and Sound | 3 | 125 |
| 3. Sound and Light | 3 | 125 |
| 4. Magnetism and Electricity | 3 | 125 |
| 5. Modern Physics I | 3 | 125 |
| 6. Optional subject or Modern Physics II | 3 | 125 |
| Practical Examinations— | | |
| First Day—Properties of Matter | 3 | 100 |
| Second Day—Heat and Sound | 3 | 100 |
| Third Day—Sound and Light | 3 | 100 |
| Fourth Day—Magnetism and Electricity .. | 3 | 100 |
| Laboratory Record Books . .. | 3 | 100 |
| Total—Main subject | | 1,250 |
| Secondary subject .. | | 150 |
| Total | | 1,400 |

At the Practical Examination candidates will be expected to make physical measurements and observations of the more advanced kind.

Each candidate shall submit his laboratory note-books containing the record of all his practical work performed during the period of study for the examination. The record shall be countersigned by the Professor or Professors under whom the candidate has worked to certify it to be a *bona fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the Examiners engaged in conducting the examination.

III. Chemistry.

Scheme of Examination. The examination shall be both written and practical, and the scheme of examination shall be as follows :—

| | Hours. | |
|-------------------------------|--------|-----------|
| 1. General Chemistry | 3 | 150 |
| 2. Inorganic Chemistry | 3 | 150 |
| 3. Physical Chemistry | 3 | 150 |
| 4. Organic Chemistry | 3 | 150 |
| 5. Special (Optional) subject | 3 | 100 |
| | | <hr/> 700 |

Practical Examinations :—

| | | |
|---|---|-----------|
| 1. Physical Chemistry | 6 | 100 |
| 2. Inorganic Qualitative Analysis .. | 6 | 75 |
| 3. Inorganic Quantitative Analysis | 6 | 125 |
| 4. Organic Chemistry .. | 6 | 150 |
| | | <hr/> 450 |

| | | | |
|--------------------|----|-----|-------|
| Laboratory Records | .. | ... | 100 |
| | | | <hr/> |

| | | | |
|--------------------|----|-----|-------|
| Total—Main Subject | .. | ... | 1,250 |
| | | | <hr/> |

| | | | |
|--------------------|----|-----|-------|
| Subsidiary Subject | .. | ... | 150 |
| | | | <hr/> |

| | | |
|-------|----|-------|
| Total | .. | 1,400 |
|-------|----|-------|

Each candidate shall submit his laboratory note-books containing the record of all his practical work performed during the period of study for the examination. The record shall be countersigned by the Professor or Professors under whom the candidate has worked to certify it to be a *bona fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the Examiners engaged in conducting the examination.

IV. *Botany.***Scheme of Examination.**

The examination shall be both written and practical, and the scheme of examination shall be as follows:—

| | Hours. | Marks |
|--|--------|-------|
| 1. Algæ, Fungi, etc. | 3 | 150 |
| 2. Pteridophytes | 3 | 150 |
| 3. Histology | 3 | 150 |
| 4. Systematic Botany | 3 | 150 |
| 5. Special subject | 3 | 150 |
| Practical examinations— | | |
| (4 practicals of 3 hours each and 100 marks for each examination) | | 400 |
| Laboratory note-books and collections | | 100 |
| Total—Main subject | | 1,250 |
| Subsidiary Subject | | 150 |
| Total .. | | 1,400 |

The practical examination may include—

- (1) The identification of Indian plants with the help of a flora or any other books allowed by the Examiners.
- (2) The preparation and correct interpretation of microscopic sections of plants.
- (3) The examination of a diseased or abnormal plant.
- (4) Practical Physiology and *viva voce* questions.

Each candidate shall submit a collection of named flowering plants, collected and preserved by himself. There may be also plants of any of the other main divisions of the vegetable kingdom. The record shall be countersigned by the Professor or Professors under whom the candidate

has worked to certify it to be a *bona fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the Examiners engaged in conducting the examination.

V. Zoology.

Scheme of Examination. The examination shall be both written and practical, and the scheme of examination shall be as follows:—

| | Hours. | Marks |
|---|--------|-------|
| 1. Invertebrata | 3 | 150 |
| 2. Chordata* | 3 | 150 |
| 3. Vertebrate Embryology; Palaeontology | 3 | 150 |
| 4. Genetics, Cytology and Gene- ral Principles | 3 | 150 |
| 5. Special subject | 3 | 150 |
| Practical examinations—(4 prac- ticals of 3 hours each and 100 marks for each examination) ... | | 400 |
| Laboratory note-books | | 100 |
| Total—Main subject | | 1,250 |
| Subsidiary subject | | 150 |
| Total | | 1,400 |

Candidates may also be examined by *viva voce* questions.

Each candidate shall submit his laboratory note-books containing the record of all practical work performed during the period of his study. In addition to his laboratory note-books, a candidate shall submit 25 slides of serial sections. The record shall be countersigned by the Professor or Professors under whom the candidate has worked to certify it to be a *bona fide* record of work

* Including Vertebrate Fauna of South India.

performed by the candidate. It shall be submitted on the first day of the practical examination to the Examiners engaged in conducting the examination.

VI. *Geology.*

Scheme of Examination.

The examination shall be both written and practical, and the scheme of examination shall be as follows:—

| | Hours. | Marks. |
|--|--------|-------------|
| 1. General Geology and Structural Geology | 3 | 150 |
| 2. Stratigraphy and Palæontology. | 3 | 150 |
| 3. Mineralogy | 3 | 150 |
| 4. Petrology | 3 | 150 |
| 5. Special subject | 3 | 150 |
| Practical examination (4 practicals of 3 hours each and 100 marks for each examination) | | 400 |
| Laboratory note-books and other records | | 100 |
| Total—Main subject ... | | 1,250 |
| Subsidiary subject ... | | 150 |
| Total | | <hr/> 1,400 |

Viva voce questions may be asked.

Each candidate shall submit his laboratory note-books and other records relating to practical work and specimens. The record shall be countersigned by the Professor or Professors under whom the candidate has worked to certify it to be a *bona fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the Examiners engaged in conducting the examination.

VII. *Physiology.***Scheme of Examination.**

The examination shall be both written and practical, and the scheme of examination shall be as follows:—

| | Hours. | Marks. |
|--|--------|--------|
| Written Examination—I (General Physiology). | ... 3 | 150 |
| Written Examination—II (Human Physiology). | ... 3 | 150 |
| Written Examination—III (Human Physiology). | ... .. | 150 |
| Written Examination—IV (Biochemistry). | ... .. | 150 |
| Written Examination—V (Special subject). | ... .. | 150 |
| Practical Examinations—4 (each of 3 hours and 100 marks for each examination). | ... .. | 400 |
| Laboratory Records | ... .. | 100 |
| Total—Main subject | ... .. | 1,250 |
| Subsidiary subject | ... .. | 150 |
| Total | | 1,400 |

Candidates may also be examined by *viva voce* questions.

Each candidate shall submit his laboratory note-books which shall contain the record of all the practical work performed by him during the period of study for the examination. The record shall be countersigned by the Professor or Professors under whom the candidate has worked, who should certify that it is a *bona fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the Examiners engaged in conducting the practical examination.

Subsidiary Subjects.

The examinations in the subsidiary subjects for the B.Sc. (Honours) Degree shall be the same as for the subsidiary subjects for the B.Sc. (Pass) Degree. The marks allotted to each subsidiary subject shall be 150.

4. No candidate shall be eligible for the B.Sc. (Honours) Degree until he has passed the examination in Part I—English or French or German (unless otherwise exempted) and in one of the seven branches of knowledge as prescribed.

5. No candidate shall be admitted to the examination in Part I—English or French or German—unless he has passed the Intermediate Examination in Arts and Science in this University or an examination recognised by the Syndicate as equivalent thereto, and has undergone the prescribed course for one academic year. The examination in Part I—English or French or German—may be taken at the end of the first year of the Honours Degree Course.

6. No candidate shall be admitted to the Final Examination (Part II—Main Subject) unless he has passed in Part I—English or French or German.

7. A candidate for the B.Sc. (Honours) Degree may appear for the examination in the subsidiary subject or subjects at the end of the second year of the course.

8. On the first day of the practical examination in the main subject every candidate shall submit his laboratory note-books containing the drawings and other records relating to his practical work performed during the period of study for the examination. The record shall be countersigned by the Professor or Professors under whom the candidate has worked and shall be certified to be a *bona fide* record of work performed by the candidate.

Time limit to appear for Final Examination. 9. A candidate for the B.Sc. (Honours) Degree shall appear for the Final Examination in Part II—

(1) not later than the end of the fourth year after commencing the Honours Degree course in a college; and
(2) in the case of Bachelors of Science or Bachelors of Arts proceeding to the B.Sc. (Honours) Degree Examination, not later than three years after commencing the B.Sc. (Honours) Degree course in a college.

Final Examination to be taken only once. 10. No candidate shall be permitted to undergo the Final Examination in Part II for the Honours more than once.

For purposes of this Regulation, the Final Examination shall mean the examination in the main subject.

A candidate for the Final Examination shall be permitted to withdraw from the examination, provided he has not sat for the last paper in the written examination or the last practical examination in the subject; and provided he has given notice of withdrawal to the Registrar, within three clear days from the date of the last paper (theory or practical) which he answered. He shall be permitted to appear again for the examination in the main subject in the following year without producing any additional certificate of attendance.

Nothing in this Regulation shall apply to the examination in the subsidiary subject.

NOTE: A candidate shall be deemed to have sat for the last paper if he has entered the hall in which the examination for the last paper is held.

Passing minimum. 11. A candidate shall be declared to have passed the B.Sc. (Honours) Degree Examination if he has obtained not less than—

(1) 40 per cent. of the total marks in Part I—English or French or German—for the two papers taken together, and

(2) 40 per cent. of the total marks in Part II and 30 per cent. of the marks in each division of Part II.

All other candidates shall be deemed to have failed in the examination.

**Divisions of the
subjects for
Examination.**

The divisions shall be as follows:-

I-A. Mathematics.—(a) Pure Mathematics, (b) Applied Mathematics, (c) Optional subjects.

I-B. Statistics.—(a) Pure Mathematics and General Algebra, (b) Statistics I, II and III, (c) Practical.

II. Physics and III. Chemistry.—(a) Written examination in the main subject, (b) Practical examination and Laboratory note-books in the main subject, (c) Subsidiary subject.

IV. Botany and VI. Geology.—(a) Written examination in the main subject, (b) Practical examination and Laboratory note-books in the main subject, (c) Subsidiary subject.

V. Zoology and VII. Physiology.—(a) Written examination in the main subject (Papers I to IV), (b) Written examination in the main subject (Paper V—Special subject), (c) Practical examination in the main subject and Laboratory records, and (d) Subsidiary subject.

12. Candidates obtaining not less than 60 per cent. of the marks in Part I—English or French or German—shall be declared to have passed with distinction.

13. Successful candidates in the examination shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in three classes:—

**Classification
of successful
candidates.**

Candidates who obtain not less than 60 per cent. of the aggregate marks shall be placed in the first class; those who obtain less than 60 per cent. but not less than 50 per cent. shall be placed in the second class; and all the other successful candidates shall be placed in the third class.

14. In the event of a candidate for the B.Sc. (Honours) Degree failing to satisfy the examiners in Part II of the examination he may be recommended by them for the B.Sc. Degree, provided that he obtains not less than $33\frac{1}{3}$ per cent. of the total marks and not than 25 per cent. in each division of the examination in Part II.

Candidates for B.Sc. (Hons.)—when recommended for B.Sc.

15. A candidate not already eligible for the B.Sc. Degree, who, having failed completely in the B.Sc. (Honours) Degree Examination, desires to appear for the B.Sc. Degree Examination, shall be allowed to do so subject to the provisions in Regulation 17 *infra* without the production of a further certificate of attendance in a Constituent or an Affiliated College in the subjects in which he has already appeared. He shall be exempted from re-appearance in Part I.

Failed candidates may appear for B.Sc.

16. A candidate not already eligible for the B.Sc. Degree, who, after being registered presents himself for the B.Sc. (Honours) Degree Examination in any year, and withdraws from the same and is prevented, through illness or otherwise, from subsequently presenting himself for the examination within the period prescribed under Regulation 9 (1) of this Chapter, shall be allowed to appear for the B.Sc. Degree Examination subject to the provisions in Regulation 17 *infra*, without the production of a further certificate of attendance in a Constituent or an Affiliated College. He shall be exempted from re-appearance in Part I.

Withdrawn candidates from (Hons.) may appear for B.Sc.

17. A candidate appearing for the B.Sc. Degree Examination under Regulations 15 and 16 above, shall offer for the examination the same subjects (main and subsidiary) taken by him for the B.Sc. (Honours) Degree course and examination, provided that (a) a candidate shall be required to take a second subsidiary subject for the B.Sc. Degree Examination and shall produce a certificate of attendance and progress that he had undergone the prescribed course in the second subsidiary subject in a Constituent or an Affiliated College for a period of not less than one academic year; and (b) a candidate who

had taken Mathematics as his main subject for the B.Sc. (Honours) Degree course shall be required to take two subsidiary subjects for the B.Sc. Degree Examination and shall produce a certificate of attendance and progress that he had undergone the prescribed course in the two subjects in a Constituent or an Affiliated College for a period of not less than one academic year.

18. A candidate who has passed the B.Sc. Degree Examination, shall be permitted to appear for the B.Sc. (Honours) Degree Examination after a further course of two years in a Constituent or an Affiliated College provided that the main subject offered for the B.Sc. (Honours) Degree Examination shall be the main subject in which he has already qualified for the B.Sc. Degree. He shall be exempted from examination in Part I and the examination in the subsidiary subject, and shall be credited with the percentage of marks, whichever is higher, obtained by the candidate in either of the two subjects taken by him for the B.Sc. Degree Examination, subject to the selection or restriction of the subsidiary subject under Regulation 2 of this Chapter;

provided, however, that candidates who have passed examinations of other Universities, recognized by the Syndicate as equivalent to the B.Sc. or B.A. Degree Examination of this University, and undergo the post-graduate course in this University shall appear for and pass in the examinations in the Main and Subsidiary subjects in this University; the examinations in the Subsidiary subject may be taken at the end of the first year of the post-graduate course.

19. A candidate who has qualified for the B. A. Degree in Group (i), (ii-a), (ii-b) or (iii) of the Old Regulations,* or in Group (i) or (ii) of the New Regulations shall be permitted to appear for the B.Sc. (Honours) Degree Examination, after a further course of two years in a Constituent or an Affiliated College, provided that the main subject offered for the B.Sc.

*Old Regulations are those that were in force prior to 1930-31 and the New Regulations are those that came into force from the examinations of 1931.

(Honours) Degree Examination shall be the main subject in which he has already qualified for the B.A. Degree. He shall be exempted from examination in Part I, and the examination in the subsidiary subject and shall be credited with the percentage of marks obtained by him in the B.A. Degree Examination, if it is the one admissible under Regulation 2 of this Chapter. If the candidate has not taken the prescribed subsidiary subject, he shall be required to pass in the subsidiary subject after undergoing one year's course of study in the subject;

provided, however, that candidates who have passed examinations of other Universities, recognized by the Syndicate as equivalent to the B.Sc. or B.A. Degree Examination of this University, and undergo the post-graduate course in this University shall appear for and pass in the examinations in the Main and Subsidiary subjects in this University; the examinations in the Subsidiary subject may be taken at the end of the first year of the post-graduate course.

20. A candidate proceeding to the B.Sc. (Honours) Degree Examination under Regulations 18 and 19 above shall be required to appear for the Final Examination not later than three years after commencing the Honours course in a college.

Time limit for post-graduate students.

21. A Bachelor of Arts—other than those who have been awarded the B.A. Degree on the results of the B.A. (Honours) Degree Examination—who appeared for the B.A. (Honours) Degree Examination in Science subjects in March 1937, with a view to qualifying for the M. A. Degree, and failed therein, and desires to appear for the B.Sc. (Honours) Degree Examination shall be permitted to do so in any subsequent year, without the production of any additional certificates of attendance, in the same subjects in which he appeared for the B.A. (Honours) Degree Examination of 1937.

22. A candidate who has qualified for the Bachelor of Arts (Honours) Degree in a science subject (under the Old Regulations) or for the Bachelor of Science (Honours) Degree of this University shall be permitted to appear again for the B.Sc (Honours) Degree Examination in a different Branch of

Hons. Graduates may appear in a different subject.

Science after undergoing the prescribed course of study in the new subject for two academic years in a Constituent or an Affiliated College of this University, provided that the new Branch of Science has been studied by the candidate as a subsidiary subject in the previous Honours course. If the new subject is other than the subsidiary subject already studied by the candidate, he shall be permitted to appear again for the B.Sc. (Honours) Degree Examination only after undergoing the prescribed course of study in the new subject for three academic years in a Constituent or an Affiliated College of this University.

He shall be exempted from examination in the Subsidiary subject.

A candidate coming under the provisions of this Regulation shall be declared to have passed the examination if he obtains not less than 40 per cent. of the total marks in the new branch of science selected by him and not less than 30 per cent. of the marks in each division of the subject.

Such candidates under the above Regulation shall not be admitted at a Convocation a second time, but special Post-Graduate Certificates setting forth the further subject or subjects passed by them and the dates of such examination shall be given to them.

Successful candidates under the above Regulation shall be placed in a separate list. They shall not be eligible for prizes or medals awarded by the University.

CHAPTER LI.

Degree of Master of Science (M. Sc.)

[Common to all Science Faculties, other than
Veterinary Science, and Engineering.]

1. A candidate may present himself for the Degree
of Master of Science (M. Sc.) under the
Eligibility. following conditions:—

- (a) *Faculty of Science*—(i) A Bachelor of Arts in a Science subject (including Groups i-a, i-b and i-c) of this University or a Bachelor of Science of this University, or of any other University recognised by the Syndicate as equivalent thereto, after two years of research under supervision and after registration.
- (ii) A Bachelor of Arts (Honours) in a Science subject, or a Master of Arts in a Science subject, or a Bachelor of Science (Honours) of this University or of any other University recognised by the Syndicate as equivalent thereto, after one year's research under supervision and after registration.
- (b) *Faculties of Engineering and Technology*—A Bachelor of Engineering or a Bachelor of Science in Technology, of this University, or of any other University recognised by the Syndicate as equivalent thereto, after one year's research under supervision and after registration.
- (c) *Faculty of Agriculture*—A Bachelor of Science in Agriculture of this University, or of any other University recognised by the Syndicate as equivalent thereto, after one year's research under supervision and after registration,

provided he had worked in a laboratory for one year prior to such registration :

provided that it shall be competent for the Syndicate to dispense with a strict compliance with the above Regulation in very special cases:

provided further that graduates of other Universities shall not be eligible to submit theses for the Degree unless they have resided for two years, subsequent to registration, within the University limits or area and have pursued a course of research in the University or a Constituent or an Affiliated College thereof recognised by the Syndicate for this purpose during this period.

2. A candidate for the Degree shall apply to the Registrar, in the prescribed form together with the fee* laid down so as to reach the Registrar on any day in the month of January or August each year, giving the following particulars :—

- (a) his qualifications and attainments, and previous study and research, if any ;
- (b) the special subject in which he intends to prosecute research. The subject of research shall be one which relates to the main branch of knowledge chosen for the preliminary Degree [*i.e.* the main subject offered for the B.A., B. Sc., B. A. (Hons.), M. A., B. Sc. (Hons.), B.E., or B.Sc. (Tech.) and in the case of Agriculture, the subject shall come within the purview of one of the following branches:—

Agricultural Botany, or
Agricultural Chemistry, or
Agricultural Zoology, or
Plant Husbandry, or
Agricultural Economics] ;

and (c) the name of the Teacher of this University or the Teacher of an Institution recognised by or affiliated to this University under whose supervision and guidance he proposes to work and

* The fee prescribed for registration for the M. Sc. Degree is Rs. 50/-.

the name of the laboratory (except in the case of Mathematics and Statistics) or Institute or College where he proposes to conduct his research ; accompanied by the written consent of the Teacher agreeing to supervise his work, and in the case of a candidate proposing to do work in an Institution from the Head of the Institution permitting him to work.

3. Every application shall be considered by the Syndicate ; and, if approved, the candidate shall be registered as a candidate for the Degree.

4. Every candidate so registered shall have the option, subject to approval by the Syndicate, and definite recommendation of the supervisor concerned, to submit a thesis for the Degree of M.Sc., or Ph.D., provided he satisfies the conditions regarding the duration of supervised research in each case :

provided, however, as a temporary measure, it shall be competent for the Syndicate on the recommendation of the supervisor concerned, to permit such research students as had already been registered for the M. Sc. Degree prior to the introduction of these Regulations to apply for the Ph.D. Degree.

5. The Institutions for purposes of approval for research shall ordinarily be Departments of the University or Colleges affiliated to or recognised by the University up to the Honours standard in the Branch of Study or the Professional Colleges concerned. The Syndicate however may in regard to First Grade Colleges recognise particular Departments of Study, if it is satisfied both with regard to the laboratory facilities available and the qualifications of the person for supervision, such recognition being for a period of time and renewable subject to such conditions as the Syndicate may lay down. In regard to subjects for which research facilities are not available within the University, it shall be competent for the Syndicate to recognize, on individual merits, Research Institutes or Departments of an All-India character and the Teachers or Officers employed therein for purposes of enabling persons to pursue research in such Institutes or Departments with a view to qualifying for the M.Sc. Degree of this University.

6. After the expiration of the period of post-graduate study and research, every candidate shall submit with his application for the Degree four copies of the thesis, printed or type-written, embodying the results of the research carried out by him, together with the prescribed fee.*

The candidate shall also submit with his application and thesis a certificate from the Teacher, under whom he worked, that the thesis submitted is a record of research work done by the candidate during the period of study under him, and that the thesis has not previously formed the basis for the award to the candidate of any Degree, or Diploma, or Associateship, or Fellowship, or other similar title; together with a statement from the Teacher indicating the extent to which the thesis represents independent work on the part of the candidate.

7. The application for the Degree and the thesis must be forwarded so as to be received by the Registrar on any day in the month of January or August and after completion of the research work in accordance with the conditions laid down in Regulation 2 *supra*.

A candidate may also forward as supplementary papers to his thesis printed copies of any contribution or contributions to the knowledge of his subject or of any cognate branch of science he may have published in Journals or Periodicals and the names of such Journals or Periodicals.

8. The thesis shall be referred by the Syndicate, for report, to a Board of three Examiners. At the discretion of the Board of Examiners the candidate may be asked to submit to an oral examination; provided, however, it shall be competent for the Syndicate in the case of a Board of Examiners outside India, to arrange for the holding of an oral examination by a Board of Examiners in India, should

* The fee prescribed for applying for the M.Sc. Degree is Rs. 100/-.

the first mentioned Board of Examiners consider this necessary prior to coming to a decision. After receipt from the Board or Boards of the report on the thesis and on the oral examination, if any, the Syndicate may decide whether the candidate has qualified for the Degree or not. The decision of the Syndicate shall be published in the *Fort St. George Gazette*.

9. The thesis, whether approved or not, shall not be published without the sanction of the
Publication. Syndicate, and the Syndicate may grant permission for the publication under such conditions as it may impose.

10. A candidate shall not be permitted to submit a
Number of thesis for the Degree on more than two
chances. occasions, provided, however, it shall be competent for the Syndicate, if the Board of Examiners so recommend, to permit the candidate to submit a thesis on a third occasion.

11. Teachers who are working in the University or
Exception. Teachers in Colleges affiliated to or recognised by the University and who are Heads of Departments in Honours or First Grade or Professional Colleges may be permitted to submit theses for the Degree without working under supervision, provided, however, they register themselves for the Degree beforehand as specified in Regulation 2 *supra*; and provided further the Syndicate is satisfied with the laboratory and other facilities for research available in such institutions. This concession shall not apply to teachers who are not Heads of Departments. Teachers on the staff of an Affiliated or Constituent College may be permitted to register for a Master's Degree and to prosecute research in the college for that degree while still working as a member of the staff.

CHAPTER LII.

Degree of Doctor of Science (D. Sc.)

*(Common to all Science Faculties and the
Faculties of Medicine and Engineering.)*

1. A Master of Science or Doctor of Philosophy, in any of the above Faculties of this University, may present himself for the Degree of Doctor of Science (D. Sc.), the highest Degree of this University in the above Faculties, three years after having qualified for the Degree of M.Sc. or two years after having qualified for the Degree of Ph. D.

2. The candidate shall state in his application the special subject upon a knowledge of which he bases his qualification for the Doctorate. Such subject shall be one which relates to the branch of knowledge chosen for the preliminary Degree. If the thesis submitted has formed in part the basis for the award of a previous research degree, the candidate shall clearly set forth in a preface or written statement the portion or portions upon which has been based the award of the previous degree. He shall submit with his application four copies of his thesis, which shall ordinarily be published work or published papers or books that make a distinct contribution to scientific knowledge.

*Note :—*A thesis must be on one main theme, and no candidate can submit as a thesis a series of unconnected papers. A series of connected papers can be submitted provided they form one connected theme; and additional papers can be submitted in support of the main thesis only on the understanding that the candidate indicates in the preface the main work, or memoir, or thesis upon which he bases his application.

3. The thesis shall be accompanied by a declaration signed by the candidate that it has been composed by himself independently, and a certificate that the thesis has not previously formed

the basis for the award of any Degree other than a Master's Degree or Ph.D. Degree, Diploma, Associateship, Fellowship or other similar title. If the thesis has not already been published, it shall be published by the candidate in such manner as the Syndicate shall approve.

4. The candidate shall indicate generally, in a preface to his thesis and specially in notes, the sources from which his information is taken and the extent to which he has availed himself of the work of others; he shall also state in what respect his investigations appear to him to tend to the advancement of science or otherwise form a valuable contribution to the literature of the subject dealt with.

5. The application and the thesis must be forwarded with the prescribed fee* so as to reach the Registrar on any day in the month of January or August, and after the lapse of the period mentioned in Regulation 1 *supra*.

6. The candidate may with the thesis forward printed copies of any original contribution or contributions to the knowledge of his subject or of any cognate subject which may have been published by him independently or conjointly and upon which he relies in support of his candidature.

7. The thesis, together with any other contributions and papers submitted, shall be referred by the Syndicate, for report, to a Board of three Examiners. At the discretion of the Board of Examiners the candidate may be asked to submit to an oral examination; provided, however, it shall be competent for the Syndicate, in the case of a Board of Examiners outside India, to arrange for the holding of an oral examination by a Board of Examiners in India, should the first mentioned Board of Examiners consider this necessary prior to coming to a decision. After receipt

* The fee prescribed for applying for the D.Sc. Degree is Rs. 200/-.

from the Board or Boards of the report on the thesis and on the oral examination, if any, the Syndicate may decide whether the candidate has qualified for the Degree or not ;

provided that it shall be competent for the Board of Examiners, if a candidate fails to reach the standard for the D.Sc. Degree, to recommend him for the Degree of Ph.D.

The decision of the Syndicate shall be published in the *Fort St. George Gazette*.

8. A candidate shall not be permitted to submit a thesis for the Degree on more than two occasions ; provided, however, it shall be competent for the Syndicate, after having taken into consideration the remarks of the Board of Examiners, to permit a candidate to submit a thesis on a third occasion.

9. The Syndicate may, in exceptional circumstances, on the record of approved work already published and assessed by an independent Committee appointed by the Syndicate, permit a Degree holder in any of the Faculties of Science and the Faculty of Medicine of this University to supplicate for the highest Degree (D. Sc.) of this University without any preliminary Research Degree to his credit, provided that 7 years have elapsed from the date of taking his first Degree.

10. It shall be competent for the Syndicate to permit a candidate to apply for the D.Sc. Degree under the Regulations in force prior to March 1945, provided it is satisfied that he has been engaged in pursuing research for this purpose prior to the passing of these Regulations.

This Regulation shall remain in force until the 31st January 1947.

CHAPTER LIII.

Degree of Bachelor of Laws.

1. No candidate shall be eligible for the Degree of Bachelor of Laws unless he has taken
Eligibility for the B.L. Degree. a Degree in this University or a Degree in some other University accepted by the Syndicate as equivalent thereto, and has also passed the two examinations in Law.

First Examination in Law.

2. No candidate shall be admitted to the First Examination in Law, unless he forwards
Qualification of candidates. before the date of the commencement of the examination satisfactory evidence of having qualified for a Degree in this University, or a Degree in some other University accepted by the Syndicate as equivalent thereto, and of having undergone a course of study in the subjects prescribed for the examination in a Constituent or an Affiliated College for a period of one academic year.

3. Candidates for the First Examination in Law shall be examined in the following subjects :—
Subjects for Examination.

- (i) Jurisprudence. (One paper).
- (ii) Roman Law. (One paper).
- (iii) The Law of Contracts, including Negotiable Instruments and Specific Relief. (Two papers).
- (iv) The Law of Torts. (One paper).
- (v) Indian Constitutional Law. (One paper).

Each paper shall be of three hours' duration, except the paper on Indian Constitutional Law which shall be of two hours' duration.

4. (a) A candidate shall be declared to have passed the Examination if he obtains not less than forty per cent. of the total marks, and not less than one-third of the marks
Marks qualifying for a Pass.

in each Division of the Examination. The Divisions shall be as follows :

- (i) Jurisprudence, Roman Law, and Indian Constitutional Law.
- (ii) The Law of Contracts, including Negotiable Instruments and Specific Relief, and the Law of Torts.

All other candidates shall be deemed to have failed in the Examination.

(b) A candidate who fails in the whole examination, but obtains not less than fifty per cent. of the marks in any division shall be exempted from re-examination in the subjects included in the Division.

5. Candidates who pass the whole examination at one appearance shall be ranked in the order of proficiency as determined by the total marks obtained by each, and shall be arranged in three classes.

Classification of successful candidates.

The *first*, consisting of those who obtain not less than sixty per cent. of the total marks.

The *second*, of those who obtain less than sixty per cent. but not less than fifty per cent. of the total marks.

The *third*, of those who obtain less than fifty per cent. but not less than forty per cent. of the total marks.

All candidates who pass the examination in compartments, Division by Division, shall be placed in the third class in a separate list.

B.L. Degree Examination.

6. No candidate shall be admitted to the B.L. Degree Examination unless he forwards before the date of the commencement of the examination, satisfactory evidence of having passed the first Examination in Law, and of having undergone a course of study in the subjects prescribed for the B.L. Degree Examination for one year in any Constituent or Affiliated College, after the date of the First Examination in Law at which the candidate passes ;

Qualification of candidates.

provided that this Regulation shall not apply in the case of candidates who have, prior to the beginning of the academic year 1935-36, completed the prescribed course of study for the B.L. Degree Examination and have earned the attendance certificate for B.L. before passing the F.L. Examination.

Subjects for Examination. 7. Candidates for the B.L. Degree Examination shall be examined in the following subjects :—

- (i) The Law of Property, with special reference to the Transfer of Property Act, the Indian Trusts Act and the Indian Easements Act. (Two papers).

Questions shall ordinarily be set only on such parts of the English Law of Property as deal with the general principles of the Law of Property and are calculated to enable students to appreciate the Indian Law of Property.

- (ii) Hindu Law (One paper).
- (iii) Muhammadan Law (One paper).
- (iv) The Principles of Land Tenures in the Madras Presidency. (One paper).
- (v) The Law of Evidence. (One paper).
- (vi) Criminal Law (Indian Penal Code). (One paper).

Each paper shall be of three hours' duration, except the papers on Muhammadan Law, the Principles of Land Tenures and the Law of Evidence which shall be of two hours' duration each.

8. (a) A candidate shall be declared to have passed the Examination, if he obtains not less than forty per cent. of the total marks and not less than one-third of the marks in each Division of the Examination. The Divisions shall be as follows :—

Marks qualifying for a Pass.

- (i) The Law of Property and Madras Land Tenures.
- (ii) Hindu Law and Muhammadan Law.
- (iii) Criminal Law and the Law of Evidence.

All other candidates shall be deemed to have failed in the examination.

(b) A candidate who fails in the whole examination but obtains not less than fifty per cent. in any Division shall be exempted from re-examination in the subjects included in the Division.

9. Successful candidates who pass the examination in one appearance shall be ranked in the order of proficiency as determined by the total marks obtained by each, and shall be arranged in three classes:—

Classification of successful candidates.

The *first*, consisting of those who obtain not less than sixty per cent. of the total marks."

The *second*, of those who obtain less than sixty per cent. but not less than fifty per cent. of the total marks.

The *third*, of those who obtain less than fifty per cent. but not less than forty per cent. of the total marks.

All candidates who pass the examination in compartments, Division by Division, shall be placed in the third class in a separate list.

CHAPTER LIV.

Degree of Master of Laws.

1. No candidate shall be eligible for the Degree of Master of Laws unless he has taken the Degree of Bachelor of Laws of this University or a degree in some other University accepted by the Syndicate as equivalent thereto and has also passed the M. L. Degree Examination:

Provided, however, that graduates of other Universities shall not be eligible to appear for the examination unless they have resided for two academic years within the University limits or area, prior to the date of the examination, and have been under the supervision of the Principal or other permanent member of the Law College staff to whom a report shall be made once a month by the student in person.

No candidate shall be admitted to the examination for the Degree of Master of Laws unless he has passed not less than two years previously the examination for the Degree of Bachelor of Laws in this University or a Degree examination in some other University accepted by the Syndicate as equivalent thereto.

Each candidate must forward before the date of the commencement of the examination satisfactory evidence of having taken the Degree of Bachelor of Laws of this University, or a Degree of some other University accepted by the Syndicate as equivalent thereto.

2. Candidates for the Degree of Master of Laws shall be examined in one of the following branches:—

BRANCH I—JURISPRUDENCE.

1. Jurisprudence.
2. History of English Law.
3. Roman Law and general outline of the French and German Civil Law.

4. Ancient Law and Polity.
5. Legislation, method and interpretation.

BRANCH II—CONSTITUTIONAL LAW AND
INTERNATIONAL LAW.

1. Constitutional Law—India and the British Commonwealth.
2. Constitutional Law—The United States, France and Switzerland.
3. Public International Law.
4. Private International Law.
5. Public Authorities, Corporations and Elections.

BRANCH III—CRIME AND TORT.

1. Theory of Crime and Punishment.
2. Development of Criminal Law and Procedure in England and in India.
3. Comparative Criminal Jurisprudence.
4. Torts—General Principles.
5. Torts—Specific Wrongs.

BRANCH IV—CONTRACTS INCLUDING MERCANTILE LAW.

1. Contracts—General Principles.
2. Contracts—Special Contracts.
3. Banking and Negotiable Instruments.
4. Company Law and Bankruptcy.
5. Insurance and Maritime Law (Merchant Shipping, Bills of Lading, Charter-parties and Collisions).

BRANCH V—HINDU, MUHAMMADAN AND
OTHER PERSONAL LAWS.

1. Hindu Law—Domestic relations, inheritance and woman's property rights.
2. Hindu Law—The Joint Family.

3. Hindu Law Codes and Commentaries--The Artha Sastra and the Mimamsa.
4. Muhammadan Law and its history.
5. Statute Law in India relating to guardianship, marriage and succession.

BRANCH VI—PROPERTY.

1. Transfer of Property in England and India including trusts, settlements and conveyancing.
2. Transfer of Property in England and India—Sales, mortgages and leases.
3. Succession, testamentary and intestate.
4. Public Trusts and Charities.
5. Customary and Statute Law relating to land tenures in India.

Each paper shall be of three hours' duration and shall carry 100 marks.

(For Syllabuses, Text-books, etc., *vide* **Appendix VII.**)

Marks qualifying for a Pass. 3. Candidates who obtain not less than one-third of the marks in each paper of the Branch and not less than forty per cent. on the whole, shall be declared to have passed the examination. All other candidates shall be deemed to have failed in the examination.

Classification of successful candidates. Successful candidates shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in three classes:—

The *first*, consisting of those who obtain not less than sixty per cent. of the total marks.

The *second*, of those who obtain not less than fifty per cent. of the total marks.

The *third*, of those who obtain not less than forty per cent. of the total marks.

The examiners shall be at liberty to bracket candidates when the difference between them amounts only to a very small number of marks.

CHAPTER LV.

Degree of Doctor of Laws (LL.D.)

1. A Master of Laws of the University of Madras may offer himself as a candidate for the Degree of Doctor of Laws, provided one year has elapsed from the time when he passed the examination for the Degree of Master of Laws, and five years from the time when he passed the examination for the Degree of Bachelor of Laws.

Eligibility of candidates to apply.

2. Every candidate shall state in his application the special subject falling within the purview of the Faculty of Law, upon a knowledge of which he rests his qualification for the Doctorate, and shall, with the application, transmit four copies, printed or type-written, of a *thesis that he has composed upon some branch of Law or of the history or philosophy of Law.

Application and thesis.

The candidate shall indicate generally in a preface to his thesis and especially in notes, the sources from which his information is taken, the extent to which he has availed himself of the work of others and the portions of the thesis which he claims as original ; he shall further state whether his research has been conducted independently, under advice, or in co-operation with others, and in what respects his investigations appear to him to advance the study of Law.

The thesis shall be accompanied by a declaration signed by the candidate that it has been composed by himself and a certificate that the thesis has not previously formed the basis for the award of any Degree, Diploma, Associateship, Fellowship or other similar title.

* *Note.*—A thesis must be on one main theme, and no candidate can submit as a thesis a series of unconnected papers. A series of connected papers can be submitted provided they form one connected theme, and additional papers can be submitted in support of the main thesis only on the understanding that the candidate indicates in the preface the main work, or memoir, or thesis upon which he bases his application.

3. Every candidate may also forward with his thesis four printed copies of any original contribution or contributions to the advancement of the science or study of law whether published conjointly or independently, upon which he relies in support of his candidature.

4. The application and thesis must be forwarded so as to be received by the Registrar on any day in the month of January or August of any year.

5. The thesis, together with any other contributions and papers submitted, shall be referred by the Syndicate for report to a Board of three Examiners, one of whom shall be a recognized Teacher of Law; at the discretion of the Board of Examiners the candidate may be asked to submit to an oral examination; provided, however, it shall be competent for the Syndicate, in the case of a Board of Examiners outside India, to arrange for the holding of an oral examination by a Board of Examiners in this country, should the first mentioned Board of Examiners consider this necessary prior to coming to a decision; and after receipt from the Board of its report on the thesis and on the oral examination, if any, the Syndicate shall decide whether the candidate has qualified for the Degree or not. The decision of the Syndicate shall be published in the *Fort St. George Gazette*.

6. A candidate shall not be permitted to submit a thesis for the Degree on more than two occasions; provided, however, it shall be competent for the Syndicate, after having taken into consideration the remarks of the Board of Examiners, to permit a candidate to submit a thesis on a third occasion.

7. Successful candidates shall publish their theses before the award of the Doctorate Degree at a Convocation and shall inscribe it "Thesis approved for the Degree of Doctor of Laws in the University of Madras". Other candidates shall be at liberty to publish their theses, but not under the name of the University.

CHAPTER LVI.

*Degree of Bachelor of Medicine and Surgery.

Preliminary qualifications. I. Candidates for the Degree of Bachelor of Medicine and Surgery shall be required—

Age limit for admission. (i) to have completed the age of seventeen years on or before the date of admission to the course of First M.B. & B.S. in a College of Medicine;

(ii) to have passed the Intermediate Examination in Arts and Science of this University or an examination of some other recognised University accepted by the Syndicate as equivalent thereto having offered Physics and Chemistry as two of the three optional subjects;

Pre-Registration Examination. (iii) to have subsequently studied for a period of two terms in a college affiliated to or recognised by the University the subjects of Inorganic Chemistry, Physics and Natural Science and passed the Pre-Registration Examination of this University or an examination recognised by the Medical Council of India and accepted by the Syndicate as equivalent thereto;

Five years course of study at Medical College. (iv) to have, subsequent to passing the Pre-Registration Examination of this University or an examination accepted as equivalent thereto, been engaged for not less than five academic years in professional study in a College of Medicine affiliated to or recognised by the University, two years of which should be spent in the study of the pre-clinical subjects and not less than three years in the study of the clinical subjects subsequent to passing the First M.B. & B.S. Examination provided that the fourth and fifth years of the course of studies prescribed for the Final M.B. & B.S. Examination be spent in attendance at the University of Madras.

* For Regulations in force prior to 1928, *vide* APPENDIX XIX of Vol. I, Part II of the University Calendar for 1931-32.

2. The academic year shall consist of three terms, spring, autumn and winter. The spring term shall extend from 1st January to 31st March, the autumn term from 1st July to 30th September and the winter term from 1st October to 31st December.

Academic Terms. 3. Candidates for the Degree of M.B. & B.S. shall be required to pass three examinations, viz.,

(a) *First M.B. & B.S. Examination—*

Part I—Organic Chemistry,

Part II—Anatomy and Physiology including Biochemistry.

(b) *Second M.B. & B.S. Examination—*

Part I—Pharmacology,

Part II—Pathology and Bacteriology, Hygiene and Preventive Medicine and Ophthalmology.

(c) *Third or Final M.B. & B.S. Examination—*

Part I—Forensic Medicine.

Part II—Medicine, Surgery, Obstetrics and Gynaecology.

4. In the case of the examinations other than Part II of the Final M.B. & B.S., candidates who fail at the examination, or having applied for admission do not appear for the examination, or having obtained the prescribed certificate do not apply for admission to the examination although qualified to do so, shall be required to produce a certificate of further study for the period between the last examination at which they had failed or not appeared and the next succeeding examination.

Certificates of further study for failed and other candidates.

No candidate who failed in any of the subjects of Part II of the Final M.B. & B.S. Degree Examination shall be permitted to appear again for the examination unless he puts in a further attendance at hospital practice in the subject or subjects in which he has failed, for the period between the examination at which he failed and the next succeeding examination.

In the case of candidates who do not appear for the next succeeding examination, the period of further study shall be decided by the Principal of the College concerned, provided that such study does not exceed two terms.

5. The examinations shall be held twice a year in the months of December and April and shall ordinarily commence on the following dates* :—

Pre-Registration Examination—

1st April and 10th December.

First and Second M.B. & B.S. Examinations—

1st April and 1st December.

Final M.B. & B.S. Degree Examination—

1st April and 1st December.

PRE-REGISTRATION EXAMINATION.

6. A candidate for the examination shall have undergone a course of study extending over a period of two terms and shall be examined in the following subjects according to syllabus :—

(a) Inorganic Chemistry

(b) Physics

(c) Natural Science

The examination in each subject shall consist of a written and a practical test.

7. No candidate shall be admitted to the examination unless he has produced satisfactory evidence of having complied with the provisions contained in Regulation 1 (ii) above and has produced the prescribed certificates of study.

8. (1) Candidates who have passed Part II (Old Regulations) or Part III (New Regulations) of the B.A. Degree or Part II of the B.Sc. (Pass) or B.Sc. (Honours) or B.A. (Honours) (Old Regulations) Degree Examination

**Vide* Ordinance—Chapter XXXVIII.

of the Madras University with Physics or Chemistry (as Main subject) or Botany and Zoology (together) as optional subjects or have obtained a degree in any of these subjects in any other Indian University (where practical courses and examinations are held) accepted by the Syndicate as equivalent thereto, shall not, however, be required to produce the prescribed certificates for or to pass in any of the subjects in which they have passed at the Degree Examination in the main standard; provided, however, that exemption in the case of graduates of other Universities shall be restricted to not more than one subject which shall be the main subject in which they have obtained the highest proficiency:

Provided, however, that a candidate who has passed in Part II Old Regulations or Part III of the New Regulations of the B.A. Degree or Part II of the B.Sc. (Pass) or B.Sc. (Hons.) or B.A. (Hons.) of the Old Regulations of the Madras University with Physics or Chemistry as the main subject and Chemistry or Physics as the subsidiary subject, shall be exempted from courses and examination in both subjects.

Candidates of other Universities who have undergone theoretical and practical courses and have had practical examinations and passed shall similarly be exempted if they had taken Physics and Chemistry as main subjects of their study for their respective degree examinations.

(2) Candidates who have passed B.Sc. (Hons.) or B.A. (Hons.) Degree Examination of the Madras University or an examination accepted as equivalent thereto of any Indian University with Chemistry as the main subject of study and examination will be exempted from Part I of the First M.B. & E.S. Examination, *viz.*, Organic Chemistry.

(3) Candidates who have passed the B.Sc. (Pharmacy) Degree Examination of this University shall be exempted from being examined in Inorganic Chemistry of the Pre-Registration Examination and Organic Chemistry (Part I) of the First M.B. & E.S. Examination.

Such candidates shall, however, be required to pay the prescribed fee for the whole examination.

Scheme of Examination.

9. The examination shall include:—

- (a) Inorganic Chemistry—One paper (3 hours) and a practical examination not exceeding three hours.
- (b) Physics—One paper (3 hours) and a practical examination not exceeding three hours.
- (c) Natural Science—One paper (3 hours) and a practical examination not exceeding three hours.

Candidates other than those exempted under Regulation 8 must at their first appearance present themselves in all the three subjects.

10. A candidate shall be declared to have passed the examination if he obtains not less than 35% in the written and 35% in the practical tests in each of the subjects, Inorganic Chemistry, Physics and Natural Science. All other candidates shall be deemed to have failed in the examination.

Candidates for the examination who fail but obtain 10% in each of the written and the practical parts in any subject shall be exempted from re-examination in that subject.

11. Candidates who pass the whole examination at the first appearance shall be ranked in the order of proficiency as determined by the total marks obtained by each. Candidates who obtain not less than 60% of the marks in any subject shall be declared to have passed with distinction in that subject.

All candidates who pass the examination subject by subject shall be placed in a separate list.

12. Any candidate who after qualifying for admission to the examination, applies therefor and fails four times, shall not be permitted to sit for the Pre-Registration Examination again. A candidate whose name has been registered for the examination but who absents himself therefrom from whatever cause shall be deemed to have failed in the examination.

Time limit for passing the Examination.

13. Candidates who fail in the whole examination or in any part thereof shall be required to produce a certificate of further study which shall extend to the next succeeding examination.

Further study for failed candidates.

FIRST M. B. & B. S. EXAMINATION.

14. A candidate before presenting himself for the First M.B. & B.S. Examination shall produce certificates of having attended the recognised courses of instruction in the following subjects:—

(i) A course of lectures in Organic Chemistry including practical classes extending over at least two terms.

(ii) A course of lectures and demonstrations on Anatomy including elements of Human Embryology with special reference to their application to the clinical studies, extending over at least five terms which shall include the dissection of the whole body to the satisfaction of the teachers.

(iii) A course of lectures and demonstrations on Physiology including Biophysics and Biochemistry extending over at least five terms.

(iv) A practical course in Histology, Experimental Physiology, Biophysics and Biochemistry during this period.

(v) A course of instruction in Elementary Normal Psychology.

(vi) The normal reactions of the body to injury and infection as an introduction to General Pathology and Bacteriology.

(vii) Elements of the methods of clinical examination including the use of the common instruments and the examination of body fluids with demonstrations on both normal and abnormal living subjects.

(viii) An introduction to Pharmacology.

Note.—Instruction under the last three headings shall be given for one term during the second academic year by arrangement and in co-operation with the teachers of the clinical subjects concerned.

A candidate shall produce evidence of having passed a test conducted by the college in the above three subjects, prior to the date of the examination.

Scheme of Examination.

15. The First M.B. & B.S. Examination shall consist of two parts:—

Part I—Organic Chemistry.

Part II—Anatomy including elements of Human Embryology.

Physiology including Biophysics and Biochemistry.

The examination in Organic Chemistry shall consist of—

- (1) a paper of 3 hours' duration;
- (2) a practical examination of 3 hours; and
- (3) an oral examination.

The examination in Anatomy shall consist of—

- (1) a paper of 3 hours' duration;
- (2) a practical examination of 3 hours; and
- (3) an oral examination.

The examination in Physiology shall consist of—

- (1) a paper of 3 hours' duration;
- (2) a practical examination of 3 hours in Experimental Physiology and Histology;
- (3) a practical examination of 2 hours in Biochemistry; and
- (4) an oral examination.

Candidates shall bring to the practical examination in Physiology their original laboratory note-books certified by their teachers as being the actual working notes made by the candidates in the laboratory for the inspection of the examiners. Candidates may use their own practical note books (but not text-books) at the practical examinations in Organic Chemistry and Biochemistry. At the practical and oral examinations, reference may be made by the examiners to the candidates' class records.

Submission of Laboratory Note-books.

**Examination
may be taken
in two parts.**

16. Candidates may present themselves for the whole examination at one time or may take the examination in two parts.

Part I of the examination may be taken at the end of the first year of study, and Part II at the end of the second year of study.

**Eligibility for
admission—
period of
study.**

No candidate shall be admitted to any part of the examination unless (1) he has passed the Pre-Registration Examination of this University or an examination accepted by the Syndicate as equivalent thereto; (2) he has produced satisfactory evidence of having complied with the provision in Regulation 1 (i) above, and (3) he has produced the prescribed certificates of study.

**Marks quali-
fying for a
pass.**

17. A candidate shall be declared to have passed Part I of the examination if he obtains not less than one-half of the marks in the written and oral parts taken together and not less than one-half of the marks in the practical examination.

A candidate shall be declared to have passed Part II of the examination if he obtains not less than one-half of the marks in the written and oral parts taken together in each of the subjects, Anatomy (including elements of Human Embryology) and Physiology (including Biophysics and Biochemistry) respectively, and not less than one-half of the marks in the practical examination in each subject. All other candidates shall be deemed to have failed in the examination.

**Classification
of successful
candidates.**

18. Candidates who pass Parts I and II of the examination on the first occasion of appearing therefor shall be ranked in the order of proficiency as determined by the total marks obtained by each in both parts and shall be arranged in two classes, the first consisting of those who have obtained not less than 70% of the aggregate marks, the second consisting of all the others.

Candidates who pass in the first class and who obtain not less than 75% of the marks in any subject shall be declared to have passed with distinction in that subject.

Candidates who pass the whole examination at a subsequent appearance shall be ranked only in the second class.

All candidates who pass the examination subject by subject shall be ranked in the second class separately.

19. Candidates who fail in the examination but obtain passing marks in any subject, Organic Chemistry, Anatomy or Physiology, shall be exempted from re-examination in that subject.

Exemption from re-examination in subjects.

20. Candidates who fail in any subject shall be required to produce a certificate of further study for the period which shall extend to the next succeeding examination.

Further study for failed candidates.

SECOND M. B. & B. S. EXAMINATION.

21. No candidate shall be admitted to the Second M.B. & B.S. Examination unless he has passed the First M.B. & B.S. Examination of this University or an examination of some other recognised University accepted by the Syndicate as equivalent thereto and has undergone a course of study extending over a period of one academic year for Pharmacology, Hygiene and Preventive Medicine and Ophthalmology and two academic years for Pathology and Bacteriology taken concurrently and subsequent to passing the First M.B. & B.S. Examination.

Qualifications for admission.

22. The course of instruction in Pharmacology shall include demonstrations in Experimental Pharmacology illustrating the action of drugs on living tissues.

Courses of study.

The course of instruction in Hygiene and Preventive Medicine shall be designed to meet the needs of general medical practitioners.

The course in Pathology shall include—

- (a) Instruction in General Pathology, Morbid Anatomy and Bacteriology including practical work in the subject;

- (b) attendance in the post-mortem room including the performance of the duties of a post-mortem clerk in at least ten cases (for one term) and practical experience in making post-mortem examinations; and
- (c) attendance in a clinical laboratory of a recognised institution during a period of one term.

The course in Ophthalmology shall include attendance at an Ophthalmic Hospital or the Ophthalmic wards of a General Hospital for three days in the week for a period of three months.

Scheme of Examination. 23. The examination shall consist of two parts :—

Part I—Pharmacology.

Part II—(a) Hygiene and Preventive Medicine.

(b) Pathology with Bacteriology.

(c) Ophthalmology.

The examination in each of the subjects, Pharmacology, Hygiene and Preventive Medicine, and Pathology with Bacteriology shall consist of—

- (1) a paper of three hours' duration,
- (2) a practical examination, and
- (3) an oral examination.

The examination in Ophthalmology shall consist of—

- (1) a paper of three hours' duration, and
- (2) an oral examination.

24. Candidates may present themselves for the whole examination at one time or may take the examination in two parts, provided that the examination in Part I may be taken at the end of one academic year while the examination in Part II shall be taken only after two academic years of study are completed subsequent to passing the First M.B. & B.S. Examination of this University or an examination of some other recognised University accepted by the Syndicate as equivalent thereto, and the prescribed certificates of study are produced.

**Examination
may be taken
in parts or in
whole—
conditions.**

25. A candidate for the Second M.B. & B.S. Examination shall be declared to have passed **Marks qualifying for a pass.** Part I of the examination if he obtains not less than one-half of the marks in the written and oral examinations taken together and not less than one-half of the marks in the practical examination in the subject.

A candidate shall be declared to have passed Part II of the examination if he obtains not less than one-half of the marks in the written and oral examinations taken together in each of the subjects, Hygiene and Preventive Medicine and Pathology with Bacteriology, and not less than one-half of the marks in the practical examination in each of these subjects and not less than one-half of the marks in the written and oral examinations in Ophthalmology taken together. All other candidates shall be deemed to have failed in the examination.

26. Candidates who pass Parts I and II of the examination on the first occasion of appearing therefor shall be ranked in the order of proficiency as determined by the total marks obtained by each in both parts and shall be arranged in two classes, the first consisting of those who have obtained not less than 70% of the aggregate marks, the second consisting of all the others. **Classification of successful candidates.**

Candidates who pass in the first class and who obtain not less than 75% of the marks in any subject shall be declared to have passed with distinction in that subject.

Candidates who pass the whole examination at a subsequent appearance shall be ranked only in the second class.

All candidates who pass the examination subject by subject shall be ranked in the second class separately.

27. Candidates who fail in the examination but obtain passing marks in a subject shall be exempted from re-examination in that subject. **Exemption from re-examination in subjects.**

28. Candidates who fail in any subject shall be required to produce a certificate of further study for the period which shall extend to the next succeeding examination. **Further study for failed candidates.**

FINAL M. B. & B. S. DEGREE EXAMINATION.

29. The course of study shall extend over three years which shall be spent at a hospital or hospitals recognised by the University and shall cover courses in Forensic Medicine, Medicine, Surgery, Obstetrics and Gynaecology, as well as the special subjects mentioned in the curriculum.

No candidate shall be permitted to enter on his fifth or final year of medical study unless he has passed the Second M.B. & B.S. Examination previously.

Examination may be taken in parts. 30. The Final M.B. & B.S. Examination is divided into two parts :—

Part I—Forensic Medicine.

II—(a) Medicine including Therapeutics and Mental Diseases,

(b) Surgery, and

(c) Obstetrics and Gynaecology.

A candidate may appear for Part I of the examination after undergoing the necessary courses and subsequent to passing the Second M.B. & B.S. Examination.

32. At the commencement of the three years clinical period of training, every student shall attend an introductory course of instruction in Clinical Pathology, Clinical Medicine and Clinical Surgery.

Medicine.

Detailed course of study—duration. 33. The course in Medicine shall include—

(i) Instruction in the Principles and Practice of Medicine including Clinical Pathology and laboratory methods, the application of Physiology and Anatomy to the investigation of disease and the methods of prevention of disease.

(ii) (a) An appointment for six months as clinical clerk in the medical wards of a recognised hospital.

- (b) An appointment for three months as clinical clerk in the Medical Out-patient Department of a recognised hospital.

This appointment may run concurrently with (a) above.

(iii) Instruction in—

- (a) Children's Diseases, including one month's appointment as clinical clerk in the Children's ward of a recognised hospital.
- (b) Dermatology—Attendance at a Dermatological clinic with 12 clinical lecture demonstrations.
- (c) Infectious Diseases—A course of 8 clinical lecture demonstrations in a recognised Fever Hospital.
- (d) Mental Diseases—Attendance at a recognised Mental Hospital with 12 clinical lecture demonstrations.
- (e) Physio-therapy.
- (f) Psychology in relation to Medicine.
- (g) Radiology in its application to Medicine.
- (h) Instruction in vaccination by a qualified Health Officer with six lecture demonstrations.
- (i) Attendance at a recognised Tuberculosis Hospital with 12 clinical lecture demonstrations.
- (j) Medical Therapeutics.

In all the above subjects clinical or practical instruction shall, as far as possible, take the place of systematic lectures. Questions on the subjects under (iii) above may be included in the examination in Medicine but separate examination in those subjects will not be held.

Surgery.

Detailed course of study—duration. 34. The course in Surgery shall include—

- (i) Instruction in the Principles and Practice of Surgery including Clinical Pathology and

laboratory methods, the application of Physiology and Anatomy to the investigations of disease and the methods of prevention of disease.

- (ii) An appointment for six months as Surgical Dresser in the wards of a recognised hospital.
- (iii) An appointment for three months as Surgical Dresser in the Out-patient Department of a recognised hospital.

This appointment may run concurrently with (ii) above.

(iv) Instruction in—

- (a) Anaesthetics with six clinical lecture demonstrations.
- (b) Dental Surgery.
- (c) Operative Surgery.
- (d) Orthopaedic Surgery.—Attendance in the special departments with 12 clinical lecture demonstrations.
- (e) Oto-Rhino-Laryngology.—Attendance at a recognised clinic with 12 clinical lecture demonstrations.
- (f) Radiology in its application to Surgery.—Attendance at a Radiological Institute with 12 clinical lecture demonstrations to cover medical and surgical Radiology.
- (g) Venereal Diseases.—Attendance at a Venereal Clinic with 12 clinical lecture demonstrations.

In all the above subjects clinical or practical instruction shall, as far as possible, take the place of systematic lectures. Questions on the subjects under (iv) above may be included in the examination in Surgery but separate examination in those subjects will not be held.

Obstetrics and Gynaecology.

35. (1) The course in Obstetrics and Gynaecology shall include instruction in the Principles and Practice of Obstetrics and Gynaecology including the Applied Anatomy
- Detailed course of study—duration.**

and Physiology of pregnancy and labour and the method of prevention of diseases.

(2) The minimum period of study devoted to Clinical Obstetrics and Gynaecology shall be six months subsequent to the performance of duties as a medical clerk and surgical dresser. During this period, the hours of instruction shall be so allotted that at least two-thirds are given to Obstetrics including Ante-natal Care and the Hygiene of Infants. The course shall include—

- (a) Two months attendance in a Maternity Hospital or the maternity wards of a General Hospital. During this period the student shall, wherever practicable, be resident in the hospital or a hostel attached thereto.
- (b) The personal conduct of twenty labours under supervision, at least five of which must be in the hospital.
- (c) Clinical clerking in the Gynaecological wards and Out-patient Department of a recognised hospital for at least two months.

Throughout the six months, the student shall receive practical instruction in the wards and Out-patient Department of the Maternity Hospital in the principles of—

- (1) Ante-natal and Post-natal Care;
- (2) the management of the puerperium; and
- (3) the care of the new-born infant.

**Scheme of
Examination.**

36. The scheme of examination shall be as follows:—

Part I—*Forensic Medicine*—One paper of 3 hours' duration and an oral examination.

Part II—*Medicine*—(a) Two papers each of 3 hours' duration;

(b) a clinical examination in Medicine consisting of—

- (i) an examination of a patient and a written report thereon;

(ii) an oral examination on a case or cases, and

(c) an oral examination.

Surgery.—Two papers each of 3 hours' duration. A clinical examination in Surgery. An examination in Operative Surgery and an oral examination.

Obstetrics and Gynaecology.—One paper of three hours' duration: A clinical examination in Obstetrics and Gynaecology. An oral examination including questions on specimens and appliances.

37. No candidate shall be admitted to the examination (either Part I, or Part II, or whole) unless (1) he has previously passed the Second M.B. & B.S. Examination of this University or an examination of some other recognised University accepted by the Syndicate as equivalent thereto, (2) he has produced the prescribed certificates, and (3) he has produced satisfactory evidence of having complied with the provisions in Regulation I (iv) above.

No candidate shall be permitted to appear for the Final M.B. & B.S. Part II Examination unless he produces a certificate of hospital attendance for at least one term prior to the date of appearance at the examination.

38. A candidate for Part I of the Final M.B. & B.S. Examination shall be declared to have passed the examination if he obtains not less than one-half of the marks in the written and oral examinations taken together.

Marks qualifying for a pass.

A candidate shall be declared to have passed Part II of the Final M.B. & B.S. Examination if he obtains—

(a) (i) not less than one-half of the marks in the written and oral examinations in Medicine taken together, and

(ii) not less than one-half of the marks in the clinical examination in that subject;

- (b) (i) not less than one-half of the marks in the written, practical and oral examinations in Surgery taken together, and
- (ii) not less than one-half of the marks in the clinical examination in that subject; and
- (c) (i) not less than one-half of the marks in the written and oral examinations in Obstetrics and Gynaecology taken together, and
- (ii) not less than one-half of the marks in the clinical examination in that subject.

All other candidates shall be deemed to have failed in the examination.

39. Candidates who pass Parts I and II of the examination on the first occasion of appearing therefor, shall be ranked in the order of proficiency as determined by the total marks obtained by each in both parts and shall be arranged in two classes, the first consisting of those who have obtained not less than 70% of the aggregate marks and the second consisting of all the others.

Candidates who pass in the first class and who obtain not less than 75% of the marks in any subject shall be deemed to have passed with distinction in that subject.

Candidates who pass Parts I and II of the examination at a subsequent appearance shall be ranked only in the second class.

All candidates who pass the examination subject by subject shall be ranked in the second class separately.

**Exemption
from re-
examination
in subjects.**

40. Candidates who fail in the examination but obtain passing marks in any subject shall be exempted from re-examination in that subject.

41. Candidates appearing for the Final M.B. & B.S. Examination shall complete Part II of the examination in Medicine, Surgery, and Obstetrics and Gynaecology within a period which ordinarily shall not exceed 24 months from the date of the first appearance

**Time limit for
qualifying for
the Degree.**

for Part II of the examination. Such candidates as do not pass all the subjects of Part II within this period shall be required to take the entire examination again.

42. Candidates who fail in Part II of the Final M.B. & B.S. Examination or in any subject thereof shall be required to put in an additional course of hospital attendance for a period which shall extend up to the next succeeding examination.

**Further study
for failed
candidates.**

Transitory Regulations.

43. Candidates who have commenced their medical courses of study and are undergoing the same in any of the Medical Colleges of the University before the 1st January 1940, under the Regulations in force before the above date, (Chapter LIV, Volume I, Part II of the University Calendar, 1939-40), shall continue their studies and proceed to the Degree under the same Regulations, subject to such alterations to those Regulations, if any, as may be made from time to time, and also subject to the following transitory provisions:—

No candidate shall be permitted to appear for the Final M.B. & B.S. Part II Examination unless he produces a certificate of hospital attendance for at least one term prior to the date of appearance at the examination.

A candidate who fails in any examination, First, Second or Final M.B. & B.S., shall be required to put in an additional course of study for the period which shall extend up to the next succeeding examination.

44. A candidate who holds the Government Diploma of L.M.P. of this Presidency or any other qualification accepted by the Syndicate as equivalent thereto shall be admitted to the courses for the Degree of M.B. & B.S. provided:—

**L.M.P.'s to
qualify for
M.B. & B.S.
Degree.**

- (i) that he has passed the Intermediate Examination in Arts and Science of this University or of some other Indian University accepted as equivalent thereto by the Syndicate irrespective of the subjects taken therein or

possesses such other general educational qualifications as may be recognised by the Medical Council of India for admission to the medical courses of study;

- (ii) that he has subsequently passed the Pre-Registration Examination of this University;
- (iii) that Licentiates who have undergone the five years' course and obtained the Government Diploma of L. M. P. of the Madras Government shall be exempt from the Pre-Registration Examination;
- (iv) that he has subsequently passed the First M.B. & B.S. Examination of this University;
- (v) that he has attended a course of study and hospital practice including attendance in medical and surgical departments for not less than two academic years in a College of Medicine recognised by or affiliated to this University subsequent to passing the First M.B. & B.S. Examination of this University during which period he should have received instruction in the special subjects and in Applied Anatomy, Applied Physiology and Pathology;
- (vi) that he has held the appointment as Clinical Clerk at the Gynaecological Wards, the Ante-natal Clinic and the Maternity Wards of a Lying-in-Hospital for a period of three months and has personally conducted 20 cases of labour of which 5 should have been under supervision; and
- (vii) that he has passed the Second M.B. & B.S. Examination and Parts I and II of the Final M.B. & B.S. Examination, provided that Part I of the Final M.B. & B.S. Examination may be taken eighteen months after passing in Anatomy and Physiology.

45. A candidate who holds the Government Diploma of L. M. P. of this Presidency or any other qualification accepted by the Syndicate as equivalent thereto shall be

admitted to the courses for the Degree of M. B. & B. S. provided:—

- (i) that he has passed the Matriculation Examination of this University or an examination accepted by the Syndicate as equivalent thereto;
- (ii) that he has subsequently undergone a course of study for two academic years in a College of Medicine affiliated to or recognised by the University of Madras;
- (iii) that he has undergone a course in Anatomy and Physiology including Biochemistry and has passed at the end of the course a special examination in these subjects, in which special emphasis will be laid on the applied aspects of these subjects. There will be only a written and oral examination, but no practical examination in these subjects, and students should obtain 50 per cent. of the marks for a pass in each of the subjects of Anatomy and Physiology including Biochemistry;
- (iv) that he has attended a course of study and hospital practice for twelve months or one academic year subsequent to his passing the special examination in Anatomy and Physiology including Biochemistry;
- (v) that he has passed the Second M.B. & B.S. and Final M.B. & B.S. Degree Examination; provided that Part II of the Final M.B. & B.S. Degree Examination shall be taken subsequent to his passing the Second M.B. & B.S. Examination.

Candidates who hold the Government Diploma of D.M.S. or an equivalent qualification after undergoing a five-year course in a Medical College or who have undergone the intensive three months' course in the Army and passed the examination held after the course, shall, subject to the conditions laid down in (i), (iii), (iv) and (v) *supra*, be eligible to complete their course of study and appear for the Final Examination eighteen months after their joining a College of Medicine.

Candidates who have joined and are now undergoing a course of study under the existing Regulation (Regulation 44) will have the option of coming under the revised Regulation.

46. The Old Regulations so far as they are applicable in regard to the L.M. & S. Degree shall continue to be applicable to those candidates who are entitled under the Old Regulations to these privileges.

The term "Old Regulations" means either the Regulations which came into force on the 1st July 1926, or the Regulations in force prior thereto.

47. Candidates for the M.B. & B.S Degree who have qualified for the L.M. & S. Degree after a five years' course shall be exempted from re-examination in the subject in which they have obtained 50 per cent. of the marks and from the production of additional attendance certificate in the other subjects.

CHAPTER LVII.

Degree of Master of Science (M. Sc.).

*(Common to the Faculties of Medicine and
Veterinary Science)*

1. (a) *Faculty of Medicine*—A Bachelor of Medicine of this University, or of any other University recognised by the Syndicate as equivalent thereto, can present himself for the Degree of Master of Science ; provided he has previous to registration for the Degree worked in the Department concerned for a period of not less than one year, and has prosecuted a course of study and research in the Department for a period of not less than one year subsequent to registration.

(b) *Faculty of Veterinary Science*—A Bachelor of Veterinary Science of this University, or of any other University recognised by the Syndicate as equivalent thereto, can present himself for the Degree of Master of Science ; provided he has previous to registration for the Degree worked in the Department concerned for a period of not less than one year, and has prosecuted a course of study and research in the Department for a period of not less than one year subsequent to registration :

provided that it shall be competent for the Syndicate to dispense with a strict compliance with the above Regulation in very special cases;

provided further that graduates of other Universities shall not be eligible to submit theses for the Degree, unless they have resided for two years, subsequent to registration, within the University limits or area and have pursued a course of study in the Department concerned of a Constituent or Affiliated College or Research Institute thereof recognised by the Syndicate for this purpose during this period.

2. The Degree of Master of Science in the Faculties of Medicine and Veterinary Science shall be confined to the following subjects :—

| <i>Medicine.</i> | <i>Veterinary Science.</i> |
|-------------------|----------------------------|
| Anatomy, | Anatomy, |
| Physiology, | Physiology, |
| Pharmacology, | Pathology, |
| Pathology, | Parasitology, |
| Bacteriology, and | Bacteriology, |
| Biochemistry. | Animal Nutrition, and |
| | Animal Genetics. |

3. A candidate for the Degree shall apply to the Registrar in the prescribed form together with the fee* laid down so as to reach the Registrar on any day in the month of January or August each year, giving the following particulars :—

- (a) his qualifications and attainments and previous study ;
- (b) the special subject which he proposes to offer for the Degree ;
- (c) the Institution in which he proposes to prosecute his studies ; together with the written consent of the Teacher agreeing to supervise his work and to provide the necessary facilities for study, and the consent of the Head of the Institution permitting him to work in the Department.

4. Every application shall be considered by the Syndicate, and, if approved, the candidate shall be registered as a candidate for the Degree.

5. The Institutions for purposes of approval for study for the M.Sc. Degree shall ordinarily be Departments of the University, or Colleges affiliated to or recognised by the University in the respective Faculties. The Syndicate may recognise All-India Institutes, in regard to subjects for which facilities are not available within the University.

**Approval of
Institutions.**

* The fee prescribed for registration for the M.Sc. Degree is Rs. 50/-

Thesis and Examination. 6. (1) The candidate shall present a thesis embodying the results of his research and submit to an examination in the subject concerned.

(2) The examination for the Degree shall consist of a written part and a practical and *viva voce* examination. The written examination will consist of two papers on the main subject of study, and the practical and *viva voce* examination will be decided in each case on the nature of the subject offered for the Degree.

(3) The Degree shall be awarded if the thesis is approved and the candidate satisfies the examiners in the examination conducted.

A candidate who fails in one of the parts, the thesis or examination, shall be required to appear again for that part only.

Date of application. 7. The application for the Degree must be forwarded in the prescribed form so as to reach the Registrar on any day in the month of January or August and after completion of the period of study in accordance with the conditions laid down in Regulation 3 *supra*.*

Valuation and result. 8. The examination shall be conducted in the month of April or December, by a Board of Examiners appointed by the Syndicate. The candidate shall be declared to have qualified for the Degree, if the thesis is approved and if in the opinion of the Examining Board the candidate has shown sufficient proficiency in the subject to merit the award of the Degree. A list of successful candidates with the special subjects offered shall be published in the *Fort St. George Gazette*.

* The fee prescribed for applying for the M.Sc. Degree is Rs. 100/-

CHAPTER LVIII.

Degree of Doctor of Medicine (M.D.).

1. No candidate shall be admitted to the examination for the Degree of Doctor of Medicine unless he produces satisfactory evidence to the effect that—

Conditions of admission.

(i) he, having passed the M.B. & B.S. Degree Examination of this University, has been engaged for five years continuously in the active practice of Medicine in the case of candidates for Branch I;

or

(ii) he, after qualifying for the M.B. & B.S. Degree of this University, has been a House Surgeon in a teaching Hospital recognised by or affiliated to the University, for a period of 12 months of which six months at least has been spent in the Medical Wards or been in the active practice of the profession for a period of three years, and has held for a period of not less than two years an appointment on the medical side or in the Special Department concerned, as Senior House Physician, Clinical Assistant or any similar appointment in a teaching Hospital or Institute affiliated to this University;

provided, however, that candidates appearing for the special subjects (Branches II and III) shall be required to produce evidence of having held the post of a resident house appointment for one year, or of having been in active practice for three years followed by attachment for a period of not less than two years as Senior House Physician, Clinical Assistant or any similar appointment in a teaching Hospital or Institute affiliated to this University in the Special Department of study concerned;

provided, further, that in the case of a M. B. & B. S. graduate of this University who has been working for not less than a year in a Special Institute or Department approved for the purpose but not affiliated to the University,

the period of attachment to the Special Department in a teaching hospital or institute affiliated to this University may be reduced to one year.

2. Candidates who have received the M. B. & B. S. Degree of a University other than that of Madras, recognised by the Medical Council of India, shall be permitted to appear for the M. D. Degree Examination provided that—

**Conditions
re: other
University
Medical
graduates.**

(a) the Degree has been accepted by the Syndicate as equivalent to the M. B. & B. S. Degree of this University;

(b) they have qualified for the M. B. & B. S. Degree five years prior to their admission to the M. D. Degree course and produce satisfactory evidence of having been engaged continuously in the active practice of Medicine;

(c) they complete a course of one academic year at least in an institution or institutions affiliated to this University in the case of candidates applying for Branch I;

(d) they complete a course of not less than two academic years in the Special Department or Departments concerned in an institution or institutions affiliated to this University in the case of candidates applying for a speciality; and

(e) reciprocal recognition is given by the University concerned.

**Branches
and Scheme
of Examination.**

3. Candidates shall be examined in one of the following Branches:—

Branch I—Medicine.

- | | |
|--|---------------|
| (i) Medicine including Pathology and Mental Diseases | ... 2 Papers. |
| (ii) Tropical Medicine | ... 1 Paper. |
| (iii) A clinical and oral examination including an examination of pathological specimens | ... |

Branch II—Midwifery including Diseases of Women and Children.

- | | |
|---|--------------|
| (i) Medicine | ... 1 Paper. |
| (ii) Midwifery and Diseases of women and children, including the pathology of these subjects | ... 2 Papers |
| (iii) An essay on one of two set subjects in Midwifery and Diseases of Women. | 1 Paper. |
| (iv) A clinical and oral examination in Midwifery and Diseases of women and children including an examination of pathological specimens | ... |

Branch III-A—Pathology (Main) and Bacteriology (Subsidiary.)

- | | |
|---|---------------|
| (i) Medicine | ... 1 Paper. |
| (ii) Pathology | ... 2 Papers. |
| (iii) Bacteriology | ... 1 Paper. |
| (iv) A practical and oral examination in advanced Pathology | ... |
| (v) A practical examination in Bacteriology | ... |

Branch III-B—Bacteriology (Main) and Pathology (Subsidiary.)

- | | |
|---|---------------|
| (i) Medicine | ... 1 Paper. |
| (ii) Bacteriology | ... 2 Papers. |
| (iii) Pathology | ... 1 Paper. |
| (iv) A practical and oral examination in advanced Bacteriology. | ... |
| (v) A practical examination in Pathology. | ... |

The Medicine paper for candidates in Branches II, III-A and III-B shall be a common paper.

(NOTE: *Each paper shall be of three hours' duration.*)

4. (a) Each candidate appearing for Branch I shall produce certified case records, with commentaries, of 20 cases personally in his charge, or may submit a thesis on any particular subject of study illustrating it with case records or published work.
- Submission of case records, thesis, etc.**

- (b) Each candidate for Branch II shall produce a certified record showing that he has personally operated on twenty cases of labour and operated or assisted at twenty major operations on Gynaecological cases.
- (c) Each candidate for Branch III shall produce a certified record, with commentaries, of twenty autopsy cases personally conducted or assisted for Branch III-A, and ten for Branch III-B.

Candidates shall transmit to the Registrar not less than six months before the commencement of the examination, two copies of the case records of the cases personally attended as stated above or autopsies performed or the thesis or published work embodying the results of independent research and having a definite relation to the subjects of Medicine, Pathology, etc.

Such case records or thesis or published work shall be scrutinised by the Examiners appointed, and if accepted by them, the candidate shall be permitted to appear for the examination.

5. Candidates shall be approved by the Examiners and shall be declared to have passed if they have shown an adequate knowledge in all the subjects of the examination. All other candidates shall be deemed to have failed in the examination.

Approved Candidates.

6. A candidate who has already passed the examination in one Branch may appear on a subsequent occasion in another Branch; but no candidate shall be permitted to appear for the examination in two Branches in the same year. Such candidates shall comply with the conditions laid down for entrance to the examination in the Branch concerned. They shall be exempted from that part of the examination which is common to the Branch in which the candidate has already qualified and the Branch which he proposes to offer.

Candidates may qualify in another Branch.

CHAPTER LIX.

Degree of Master of Surgery. (M.S.)

Conditions of admission. 1. No candidate shall be admitted to the examination for the Degree of Master of Surgery unless he produces satisfactory evidence to the effect that—

(i) he having passed the M.B. & B.S. Degree Examination of this University, has been engaged for five years continuously in the active practice of Surgery in the case of Branch I, General Surgery ;

or

(ii) he, after qualifying for the M.B. & B.S. Degree of this University, has been a House Surgeon in a teaching Hospital recognised by or affiliated to the University for a period of twelve months, of which six months at least has been spent in the Surgical Wards, or been engaged in the active practice of Surgery for a period of not less than three years, and has held for a period of not less than two years an appointment on the surgical side or in the Special Department concerned, as Senior House Surgeon, or Clinical Assistant or any similar appointment in a teaching Hospital or Institution affiliated to this University ;

provided, however, that candidates appearing for the special subjects (Branch II) shall have held a resident house appointment for one year or been in practice for three years followed by attachment for a period of not less than two years as Senior House Surgeon, Clinical Assistant or any similar appointment in a teaching Hospital or Institution affiliated to this University in the Special Department of study concerned ;

provided, further, that in the case of a M.B. & B.S. graduate of this University, who has been

working for not less than a year in a Special Institute or Department approved for the purpose but not affiliated to the University, the period of attachment to the Special Department in a recognised teaching hospital affiliated to the University may be reduced to one year.

**Conditions re :
other University
medical
graduates.**

2. Candidates who have received the M.B. & B.S. Degree of a University other than that of Madras and recognised by the Medical Council of India shall be permitted to appear for the M.S. Degree Examination provided that—

- (a) the Degree has been accepted by the Syndicate as equivalent to the M.B. & B.S. Degree of this University ;
- (b) they have qualified for the M.B. & B.S. Degree five years prior to their admission to the M.S. Degree course and produce satisfactory evidence of having been engaged continuously in the active practice of Surgery;
- (c) they complete a course of one academic year at least in an institution or institutions affiliated to this University in the case of candidates applying for Branch I—General Surgery ;
- (d) they complete a course of not less than two academic years in the Special Department or Departments concerned in an institution or institutions affiliated to this University in the case of candidates applying for a speciality ; and
- (e) reciprocal recognition is given by the University concerned.

**Branches and
Scheme of
Examination.**

3. Candidates shall be examined in one of the following Branches :—

Branch I—General Surgery.

- (i) Surgery 2 Papers.
- (ii) Surgical Pathology and Anatomy 1 Paper.
- (iii) Clinical examination.

- (iv) Operative Surgery and the use of instruments.
- (v) Oral examination including slides, pathological specimens, X-Ray plates, etc.

Branch II—Special Subjects.

Candidates may offer any one of the following special subjects :—

- (a) Oto-Rhino-Laryngology.
- (b) Ophthalmology.
- (c) Orthopaedics.

Candidates offering any of these special subjects shall be examined in—

- (i) Surgery (which shall be common for all candidates appearing in the special subjects.) 1 Paper.
- (ii) Special subject, which shall include Anatomy and Surgical Pathology of the speciality. 2 Papers.
- (iii) A clinical examination in General Surgery.
- (iv) A clinical examination in the special subject.
- (v) Practical and Oral examination in the special subject including an examination of pathological specimens, slides, X-Rays, use of special instruments and operations.

(NOTE: *Each paper shall be of three hours' duration*).

4. Each candidate shall produce certified records of 20 cases personally studied or a thesis in the particular subject or published work and a list of 20 major operations personally conducted or assisted at by him, duly attested.
- Submission of case records, thesis, etc.**

Candidates shall transmit to the Registrar not less than six months before the commencement of the examination two copies of case records of 20 cases personally conducted or assisted, or the thesis or published work.

Such case records or thesis or published work shall be scrutinised by the Examiners appointed, and if accepted by them, the candidate shall be permitted to appear for the examination.

5. Candidates shall be approved by the Examiners and shall be declared to have passed if they have shown an adequate knowledge in all the subjects of the examination. **Approved Candidates.** All other candidates shall be deemed to have failed in the examination.

6. A candidate who has already passed the examination in one Branch may appear on a subsequent occasion in another Branch but no candidate shall be permitted to appear for the examination in two Branches in the same year. Such candidates shall comply with the conditions laid down for entrance to the examination. They shall be exempted from that part of the examination which is common to the Branch in which the candidate has already qualified and the Branch which he proposes to offer. **Candidates may qualify in another Branch.**

CHAPTER LX.

Post-Graduate Diplomas in Medicine and Surgery.

1. Candidates for the Diploma in any of the following subjects shall be required to have passed the M. B. & B. S. Degree Examination of this University or an examination accepted by the Syndicate as equivalent thereto:—

**Conditions
of admission.**

1. Diploma in Gynaecology and Obstetrics.
2. Diploma in Venereology.
3. Diploma in Dermatology.
4. Diploma in Ophthalmology.
5. Diploma in Oto-Rhino-Laryngology.
6. Diploma in Radiology.
7. Diploma in Orthopaedics.

No candidate shall be eligible to appear for any of the above Diplomas unless he has, subsequent to passing the M.B. & B.S. Degree Examination, held a House appointment for a period of one year in a recognised hospital attached to a teaching institution of this University or of any other University accepted as equivalent thereto, or produced evidence of having been in practice for three years subsequent to passing the M.B. & B.S. Degree Examination. Candidates should thereafter have attended for a period of 12 months the practice of a special hospital or the special wards of a General Hospital dealing with the particular speciality and affiliated to this University, during which period they should have attended not less than 20 lecture demonstrations in the particular speciality; no candidate who fails to produce satisfactory evidence of having satisfied these conditions shall be admitted to the examination.

2. Every candidate who wishes to appear for the Diploma shall be required to register his name with the University at the commencement of the academic course. Candidates for the Diplomas in Ophthalmology, Oto-Rhino-Laryngology, Radiology and Orthopaedics must have completed at least six months' house-surgeony on the surgical

**Registration of
candidates and
period of
House-
Surgeony.**

side, while candidates for the Diplomas in Obstetrics and Gynaecology, Dermatology and Venereology must have completed at least six months' house-surgeoncy on the medical side.

3. Candidates who have attended the practice of the speciality in an institution affiliated to a recognised teaching hospital of this University for over six months may claim exemption for a period not exceeding six months of the course for the particular Diploma. In the case of the Diploma in Gynaecology and Obstetrics, practice at the Government Victoria Caste and Gosha Hospital, Triplicane, may be recognised for a period of six months. It shall be open to the Syndicate in exceptional cases, where sufficient evidence of the practice of the speciality is produced, to exempt the candidate for a period of the course which shall under no circumstances exceed six months.

(Note :—Institutions which are desirous of recognition must apply to the University for such recognition.)

Every candidate for a Diploma shall be required to register his name with the University not later than six months before the commencement of the examination, shall attend the prescribed course of clinical lectures and demonstrations and shall pay to the University such fees as may be prescribed.

The fee payable for the examination shall be Rs. 50/-.
Examination Fee. A candidate who fails in the examination can be admitted at the succeeding examination provided he attends an additional course of one term or three months and pays the prescribed fee.

Dates of Examinations. 4. The examination for the Diplomas shall be held twice a year in the months of April and October.

5. Courses of study and scheme of examination.

(i) *Diploma in Gynaecology and Obstetrics.*

(1) Every candidate shall be required—

(a) to have served as a House Surgeon in a recognised lying-in-hospital for a period of six months ;

- (b) to have personally conducted at least six Obstetric Operations under the supervision of the Medical Staff of a recognised institution during this period ; and
- (c) to have subsequently given regular attendance for a period of six months at the Government Hospital for Women and Children, Madras, and to have attended such lectures and clinical demonstrations as may be prescribed.

The course shall cover theoretical and clinical instruction of not less than 30 clinical lecture demonstrations on Obstetrics and Gynaecology during this period, and in particular the instruction and examination shall embrace the following :—

Course of Study.

Practice of Obstetrics,
Practice of Gynaecology,
Anatomy of the Female Pelvis,
Elementary Embryology,
Pathology of the Female Organs, and
Ante-Natal Pathology.

(2) At the end of the course, candidates shall be examined in the following papers and clinical :—

1. Obstetrics—One paper—3 hours—100 Marks.
2. Gynaecology and Diseases of a new born child—One paper—3 hours—100 Marks.
3. A clinical and oral examination in Obstetrics and Gynaecology—100 Marks.

The examination which will be very largely practical is intended to test the student's knowledge of the practical side of Obstetrics and Gynaecology.

Scheme of Examination.

- (3) Candidates obtaining not less than one-half of the marks in each of the papers and one-half in the clinical and *viva voce* shall be declared to have passed the examination. All other candidates shall be deemed to have failed.

Marks qualifying for a pass.

(ii) Diploma in Venereology.

(1) The course of study for the Diploma shall extend over a period of one academic year, and shall be conducted in the Venereal Department of a General or special hospital affiliated to the University for the purpose; during which period the candidate shall be required also to undergo training for two weeks in serology and for one month in dermatology.

Course of Study. The course of study shall consist of not less than twenty lecture demonstrations and instruction in laboratory technique and public health aspect of venereal diseases.

(2) At the end of the course candidates shall be examined in the following :—

| | | |
|-------------------------------|----------------------------|------------|
| Scheme of Examination. | 1. A written paper—3 hours | 100 Marks. |
| | 2. A clinical examination | 100 Marks. |
| | 3. Oral examination | 50 Marks. |

(3) Each candidate shall be required to show evidence of having done 20 minor operations, of having given 100 injections, of having done 50 D.G.I. tests and of having examined 100 smears and generally to have duly performed the work of the course.

(4) Candidates obtaining not less than one-half of the marks in the written paper and one-half in the clinical and *viva voce* shall be declared to have passed the examination. All other candidates shall be deemed to have failed.

(iii) Diploma in Dermatology.

(1) The course of study for the Diploma shall extend over a period of one year and shall be conducted in the Dermatological Department of a General Hospital or special hospital recognised by the University for the purpose.

The course shall cover both theoretical and practical instruction of not less than 20 lecture demonstrations on the anatomy and physiology of the skin and on the diseases thereof.

During this period, the candidate shall be required to attend the Venereal Departments of a general hospital recognised by the University for the purpose, during a period of two months, and put in such attendance at a Leprosy clinic and in an infectious diseases hospital as the lecturer in charge of the Department may consider necessary.

He shall also be required to attend a course of therapeutic radiology as applied to skin diseases in an institute recognised for the purpose for a period of not less than 3 months (12 hours in all), for one hour in a week.

(2) At the end of the course, the candidate shall be examined in the following :—

Scheme of Examination.

- | | |
|----------------------------|------------|
| 1. A written paper—3 hours | 100 Marks. |
| 2. A clinical examination | 100 Marks. |
| 3. Oral examination | 50 Marks. |

(3) Candidates obtaining not less than one-half of the marks in the written paper and one half in the clinical and *viva voce* shall be declared to have passed the examination. All other candidates shall be deemed to have failed.

(iv) *Diploma in Ophthalmology.*

(1) The course of study for the Diploma shall extend over a period of 12 months, and it shall be obligatory on every candidate to produce evidence of having served as a House Surgeon in an Ophthalmic Hospital or the Ophthalmic Wards of a General Hospital attached to a teaching institution for a period of six months. He shall thereafter have received practical instruction at the Government Ophthalmic Hospital, Madras, for another six months, or in the alternative, shall have received practical instruction at the Government Ophthalmic Hospital, Madras, for a period of 12 months.

Course of Study.

(2) During the period of six months' attendance at the Government Ophthalmic Hospital, Madras, candidates shall be required to attend such lectures and demonstrations as may be prescribed from time to time. The course of study shall consist of not less than 30 clinical

Detailed Course of Study.

lecture demonstrations and in particular the instruction and examination shall embrace the following:—

- (a) Anatomy including Embryology and Physiology of the eye and vision.
- (b) General diseases of the eye, their diagnosis and treatment.
- (c) Errors of refraction including visual optics and perimetry.
- (d) Ophthalmoscopy.
- (e) Pathology and Bacteriology of the eye.
- (f) Ophthalmic Surgery.
- (g) Ophthalmology in its relation to general medicine.

Scheme of Examination. (3) At the end of the course the candidate shall be examined in the following:—

Written Examination.

I Paper—Part I: Anatomy and Physiology of the eye and optics.

Part II: Bacteriology and Pathology of the eye.

II Paper: Ophthalmic Medicine and Surgery including Ophthalmology in its relation to general medicine.

Each of these papers shall be of three hours' duration and shall carry 100 marks.

Practical, Clinical and Oral Examinations.

- (a) Clinical examination. . . 100 Marks.
- (b) Refraction and Dark Room examination. . . 100 Marks.
- (c) Pathological specimens, microscopic slides, optical instruments and appliances. . . 50 Marks.
- Viva Voce.* . . 50 Marks.

(4). Candidates obtaining not less than one-half of the marks in the First Paper and in Pathological specimens, etc., one-half of the marks in the Second Paper in Ophthalmic Medicine and Surgery and the *viva voce* examination, and

Marks qualifying for a pass.

one-half of the marks in the Clinical, Refraction and Dark Room examinations shall be declared to have passed the examination. All other candidates shall be deemed to have failed.

(v) *Diploma in Oto-Rhino-Laryngology.*

(1) The course of study for the Diploma shall extend over a period of one academic year and shall be conducted in the Ear, Nose and Throat Department of a General Hospital or special hospital affiliated to the University for the purpose, during which period the candidate shall have attended such lectures and demonstrations as may be prescribed from time to time. The course of study shall consist of not less than 20 lecture demonstrations, and in particular the instruction and examination shall embrace the following :—

Part I : The anatomy, embryology and physiology of the ear, nose, pharynx, larynx, trachea, bronchi and oesophagus. Students should have also a fair knowledge of Acoustics.

Part II : Medicine, surgery and pathology of the above *i.e.* ear, nose, pharynx, etc.

(2) The examination shall consist of a written paper, an oral and a practical under Part I, and a written paper, an oral, a practical and a clinical under Part II, and shall be as follows :—

| | | |
|-------------------------------|--|------------|
| Scheme of Examination. | Part I—Written paper—3 Hours | 100 Marks. |
| | Practical and Oral | 50 Marks. |
| | Part II—Written paper (Diseases and treatment of the Ear, Nose and Throat) 3 Hours. | 100 Marks. |
| | Clinical | 100 Marks. |
| | Practical and oral including slides, pathological specimens, instruments and operations. | 50 Marks. |

(3) Part I of the examination may be taken either at the end of six months after the commencement of the course or with the examination as a whole; but no candidate shall be allowed to sit for Part II unless he has passed Part I of the examination.

Examination in Parts.

(4) Candidates obtaining not less than one-half of the marks in the written paper and one-half of the marks in the practical and *viva voce* in Part I shall be declared to have passed Part I, and those who obtain one-half of the marks in the written paper and one-half of the marks in the clinical, practical, *viva voce*, etc., in Part II shall be declared to have passed the examination. All other candidates shall be deemed to have failed.

Marks qualifying for a pass.

(vi) *Diploma in Radiology.*

(1) The course of study for the Diploma shall extend over a period of one year and shall be conducted in a Radiological Department recognised by the University for the purpose.

Course of Study. The course shall cover both theoretical and practical instruction in the following:—

Anatomy and Histology with special reference to Radiology, Pathology with special reference to Radiology concerning tumours, injury to bones and joints, thorax, Radiological diagnosis, Radiographic and radiation therapy apparatus, radium therapy, various forms of light and heat treatment, Electrology, Hydrotherapy and vibration therapy.

Scheme of Examination. (2) The examination shall consist of two parts:

Part I—Physics and minor electrical engineering—2 Papers—3 hours each. 100 Marks each.

Part II—Radiology—Written—Diagnostic Radiology—3 hours. 100 Marks.
Therapeutic Radiology—3 hours 100 Marks.
Practical and Oral 100 Marks.

(3) Part I of the examination may be taken at the end of six months after the commencement of the course or with the examination as a whole; but no candidate shall be permitted to sit for Part II of the examination unless he has already passed Part I.

(4) Candidates obtaining not less than one-half of the marks in each of the written papers of Part I shall be declared to have passed Part I, and those who obtain one-half of the marks in each of the written papers and one-half in the practical and *viva voce* in Part II shall be declared to have passed the examination. All other candidates shall be deemed to have failed.

(vii) *Diploma in Orthopaedics.*

(1) The course of study for the Diploma shall extend over a period of 12 months and shall be conducted in an Orthopaedic Department (both in-patients and out-patients) attached to a hospital recognised by the University for the purpose.

Course of Study. The course shall cover both theoretical and practical instruction in the following :—

- (a) Study of fractures and dislocations.
- (b) Study of deformities of limbs, both congenital and acquired.
- (c) Study of tuberculous conditions of bones and joints.
- (d) Study of all other diseases of bone.
- (e) Study of physio-therapy.
- (f) Study of the history of the cripple problem and its application in India.
- (g) Orthopaedic operations.

Scheme of Examination. (2) The examination shall consist of a written paper, a practical, a clinical and an oral and shall be as follows :—

Written examination—

2 Papers of 3 hours each.

100 marks each.

Clinical and practical. 150 marks.

Oral examination with pathological
specimens, microscopic work,
X-Rays, splints, etc. 50 marks.

(3) Candidates obtaining not less than one-half of the marks in each of the written papers including *viva voce* and not less than one-half in the practical and clinical examinations shall be declared to have passed the examination. All other candidates shall be deemed to have failed.

CHAPTER LXI.

Degree of Bachelor of Sanitary Science (B.S.Sc.).

1. Candidates for this Degree must be graduates in Medicine and Surgery of the University of Madras or hold corresponding degrees of other Universities or Licensing Bodies recognised for the purpose by the University. The degree must be registered with the Madras Medical Council before a candidate is admitted to the examination.

2. The course of study shall extend over a period of not less than twelve calendar months, and shall include instruction in the subjects as hereunder:—

A.—Part I.

- (i) Bacteriology (including 180 hours of practical work) extending over a period of 220 hours
- (ii) Entomology and Parasitology (including 70 hours of practical work in the laboratory and in the field, and Malaria surveys) extending over a period of 90 hours
- (iii) Chemistry and Physics in relation to Public Health (including 180 hours of practical work) extending over a period of 180 hours
- (iv) Climatology and Meteorology extending over a period of 10 hours

B.—Part II.

- (i) The Principles and Practice of Public Health (including 10 hours' instruction in Maternity and Child Welfare work and organisation) extending over a period of 50 hours
- (ii) Epidemiology and Vital Statistics extending over a period of 20 hours

- (iii) Sanitary Law and Administration
extending over a period of ... 20 hours
- (iv) Sanitary Construction and Planning
(including 10 hours instruction
in Town Planning and Civic Sur-
veys) extending over a period of 30 hours
- (v) The Theory and Practice of Vaccina-
tion (including practical and out-
door work, detection and verifica-
tion) extending over a period of 30 hours
- (vi) Instruction in Infectious Diseases
and attendance upon the clinical
practice of an Infectious Diseases
Hospital extending over a period
of three months, and comprising
30 attendances of two hours each
on three days a week, involving a
total period of ... 60 hours

Note.—Provision for such instruc-
tion is made in the Infectious
Diseases Hospitals in Madras.

- (vii) Instruction in Public Health Admin-
istration (including the practical
routine and special work of a
Medical Officer of Health) extend-
ing over a period of six months,
and comprising 60 attendances of
three hours each under a Medical
Officer of Health, involving a total
period of 180 hours

Note.—This course shall comprise
instruction in Maternity and
Child Welfare work, the Medical
Inspection of School Children,
Industrial Hygiene, Inspection
and control of foods and drugs.

- (viii) Instruction in Tuberculosis, clinical
and administrative, extending
over a period of 30 hours

- (ix) Instruction in Venereal Diseases, clinical and administrative extending over a period of ... 10 hours

Note.—Provision is made in the Medical College, Madras, in the City of Madras, and in the Public Health Department for instruction in the subjects set out above.

3. The course of study shall commence in July, and shall extend over four terms as follows:—
Academic Terms. The Autumn term from July to the end of September; the Winter term from October to December; the Spring term from January to March; the Summer or Vacation term from April to June. The courses of study shall be taken in the Medical College, Madras, or in the appropriate institutions in Madras recognised for the purpose by the University.

4. The examination for the degree shall be conducted in two Parts and shall be held twice a year: Part I beginning on the 15th January or the 15th April respectively, and Part II beginning on the 15th July or the 20th November respectively.
Divisions of Examination.

5. To obtain a pass in each Part the candidates must pass in all the subjects specified in that Part at the same sitting.

6. (a) No candidate shall be admitted to the examination unless he has taken the degree in Medicine and Surgery in this University or a Degree in some other University or obtained a Diploma of a Licensing Body recognised by the University as equivalent thereto and has been registered by the Madras Medical Council.
Conditions of eligibility for appearing at the Examination.

(b) A candidate for the examination shall further be required to produce with his application satisfactory evidence of his having taken a Medical Degree or obtained the Diploma specified in the preceding Regulation and of his having been registered by the Madras Medical Council.

(c) A candidate shall further produce the required attendance and progress certificates for each Part.

(d) No candidate shall be admitted to Part II of the Examination unless he has passed previously Part I of the Examination, and two years had elapsed after qualifying for the Medical Degree or obtaining the Diploma.

7. Candidates shall not be deemed to have attended a course of instruction for the purpose of this degree who do not present certificates showing not only that they have regularly attended the course, but also that they have duly performed the work thereof to the satisfaction of the Professor or Lecturer in the subject concerned.

8. Candidates shall be examined in the following subjects in Part I of the examination.

Subjects for Examination—Part I. (i) Chemistry and Physics in relation to Public Health, Climatology and Meteorology.

(ii) Bacteriology.

(iii) Medical Entomology and Parasitology.

The examination in each subject shall include a written paper, practical examination and a *viva voce*.

Marks qualifying for a pass in Part I. 9. Candidates who obtain not less than one half of the aggregate marks in each subject in Part I of the examination shall be declared to have passed.

10. Candidates shall be examined in the following subjects in Part II of the examination :—

Subjects for Examination—Part II. (i) Hygiene and Preventive Medicine and Public Health including Sanitary Engineering.

(ii) Epidemiology and Infectious Diseases.

(iii) Sanitary Law and Vital Statistics.

(iv) Public Health Administration.

The examination in subjects (i) and (iii) shall include a written paper and a *viva voce*; that in (ii) shall include a written paper, a practical examination and a *viva voce*, and that in (iv) shall consist of a practical examination only.

11. Candidates who obtain not less than one half of the aggregate marks in each subject in Part II of the examination shall be declared to have passed.

12. Candidates who pass both parts of the examination at the first sitting and who obtain not less than two-thirds of the aggregate marks of both the parts together shall be declared to have passed in the First Class; and candidates obtaining not less than seventy-five per cent. of the marks in any subject shall be declared to have passed with distinction in that subject.

Candidates obtaining less than two-thirds of the aggregate marks and not less than 50 per cent. of the total marks shall be declared to have passed the examination in the Second Class. All the other candidates shall be deemed to have failed in the examination.

TIME-TABLE OF THE COURSES FOR THE B.S.Sc. DEGREE—(MEDICAL COLLEGE).

I.—Autumn term (July to September.)

| | | | |
|------|---|-----|------------|
| 8—10 | Medical Entomology and Parasitology—Daily | ... | 90 hours. |
| 12—1 | Bacteriology Lectures—Daily except Friday | ... | 40 hours. |
| | Climatology and Meteorology—Friday | ... | 10 hours. |
| 1—5 | ... Bacteriology Laboratory work—Daily | ... | 180 hours. |

II.—Winter term (October to December.)

| | | |
|-----|--|-----------|
| 7—9 | ... Vaccination—Daily in October... | 30 hours. |
| | Tuberculosis—Daily for three weeks in November | 30 hours. |

| | | | |
|-------|-----|--|------------|
| | | Venereal Diseases—Daily for one week in November ... | 10 hours. |
| | | Maternity and Child Welfare and Propaganda—Daily for two weeks in December ... | 10 hours. |
| | | Town Planning — Daily for two weeks in December ... | 10 hours. |
| 11—12 | ... | Principles of Public Health— Daily ... | 40 hours. |
| 12—4 | ... | Public Health Chemistry Labo- ratory work—Daily ... | 180 hours. |

III.—Spring term (January to March.)

| | | | |
|------|-----|--|-----------|
| 7—10 | ... | Duties of the Medical Officer of Health and out-door demon- strations—Monday, Wednes- day, Friday ... | 90 hours. |
| | | Infectious Diseases Hospital— Tuesday, Thursday, Saturday. | 60 hours. |
| 3—4 | ... | Epidemiology and Vital Statis- tics—Daily in January from the second Monday ... | 20 hours. |
| | | Sanitary Law and Administra- tion—Daily in February from the second Monday ... | 20 hours. |
| 4—5 | ... | Sanitary Engineering—Daily in January from the second Monday ... | 20 hours. |

IV.—Summer or Vacation term (April to June.)

| | | | |
|--|--|---|-----------|
| | | Public Health Administration and Routine with a Medical Officer of Health ... | 90 hours. |
|--|--|---|-----------|

CHAPTER LXII.

Degree of Bachelor of Science in Pharmacy B.Sc. (Pharmacy).

1. Candidates for the Degree of Bachelor of Science (Pharmacy) shall be required:—

| | |
|--|---|
| Eligibility for the course— | (i) to have completed the age of |
| Age limit and Preliminary qualifications. | 17 years on or before the date of admission to a College affiliated to or recognised by the University for the purpose of training candidates for this degree ; |

(ii) to have passed the Intermediate Examination in Arts and Science of this University or an examination of some other recognised University accepted by the Syndicate as equivalent thereto, having offered as optional subjects Mathematics, Physics and Chemistry or Physics, Chemistry and Natural Science ;

(iii) to have subsequently studied for a period of six months (two terms) in a college affiliated to or recognised by the University the subjects of General Chemistry, Organic Chemistry, Botany and Physiology (according to the syllabuses prescribed in these subjects by the University) and to have passed the Preliminary Science Examination in Pharmacy ; and .

(iv) to have, subsequent to having studied the above Preliminary Science subjects, been engaged for not less than one year and a half (four terms) in the study of Pharmaceutical Chemistry, Pharmaceutics and Practical Pharmacognosy (according to the syllabuses prescribed in these subjects by the University) in a College affiliated to or recognised by the University:

Provided that no candidate shall be allowed to appear for the Final Examination within one year of passing the Preliminary Science Examination in Pharmacy:

Provided, further, that a candidate who has failed in any subject or subjects of the Preliminary or Final

Examination may be allowed to appear again only in the subject or subjects in which he has failed.

2. The course for the Degree of B.Sc. (Pharmacy) shall extend over a period of two academic years or six terms. The curricula and syllabuses for the course shall be prescribed from time to time.

Duration of course.

3. The examinations for the Degree shall consist of a Preliminary Examination at the end of the second term, and a Final Examination at the end of the course (second year).

Examinations.

B.Sc. (Pharmacy)—Preliminary.

4. A candidate for this examination shall undergo a course of instruction in the following subjects extending over a period of six months (two terms) :—

Course of Study.

- (a) General Chemistry.
- (b) Organic Chemistry.
- (c) Botany.
- (d) Physiology.

5. Candidates who have qualified for the B.A. or B.Sc. Degree (Pass or Honours) of this University with either Chemistry or Botany as the main or subsidiary subject or of any other Indian University (where practical courses and examinations are held) accepted by the Syndicate as equivalent thereto shall not, however, be required to produce the prescribed certificates of attendance for, or to pass in, either Chemistry or Botany, as the case may be. Such candidates shall, however, be required to pay the prescribed fee for the whole examination.

Exemption from attendance certificates.

6. Candidates who have qualified for the B.Sc. (Pass or Honours) Degree of this University with Chemistry and Botany or of any other Indian University (where practical courses and examinations are held) accepted by the Syndicate as equivalent thereto shall not, however, be required to produce the prescribed certificate

attendance for, or to pass in, those subjects under B.Sc. (Pharmacy) Preliminary Examination. Such candidates shall, however, be required to pay the prescribed fee for the whole examination.

7. The course in General Chemistry, Organic Chemistry and Botany shall consist of lectures and practical work. The course in Physiology shall consist of lectures and practical demonstrations to the students. The Preliminary Examination shall consist of written, practical and oral examinations in General Chemistry, Organic Chemistry and Botany, and written and oral examinations in Physiology, and the scheme of examination shall be as follows:—

| | Hours. | Marks. |
|-------------------------------|--------|--------|
| General Chemistry (Written) | 2 | 100 |
| Organic Chemistry (Written) | 3 | 100 |
| Botany (Written) ... | 2 | 100 |
| Physiology (Written) ... | 2 | 100 |
| General Chemistry (Practical) | 3 | 100 |
| Organic Chemistry (Practical) | 3 | 100 |
| Botany (Practical) ... | 3 | 100 |
| General Chemistry (Oral) | | 50 |
| Organic Chemistry (Oral) | | 50 |
| Botany (Oral) ... | | 50 |
| Physiology (Oral) ... | | 50 |
| Total | | 900 |

The Oral Examination for each candidate shall last 20 minutes.

8. A candidate for the examination shall be declared to have passed the examination, if he obtains not less than one-half of the marks in the practical part and not less than one-half of the marks in the written and oral parts taken together in the case of General Chemistry, Organic Chemistry and Botany, and not less than one-half of the marks in the written and oral parts taken together in the case of Physiology.

9. A candidate who fails in the examination, but obtains passing marks in any subject shall be exempted from re-examination in that subject.

10. Candidates who pass the whole examination at their first appearance shall be arranged in two classes in the order of proficiency—the first consisting of those who obtain not less than 65 per cent. of the total marks and the second consisting of the others. Candidates who pass in the first class and who obtain not less than 75 per cent. of the marks in any subject shall be declared to have passed with distinction in that subject.

Candidates who pass the whole examination at a subsequent appearance shall be ranked only in the second class.

Candidates who complete the examination by passing at a subsequent appearance shall be ranked only in the second class.

B.Sc. (Pharmacy)—Final.

11. The course for the B.Sc. (Pharmacy) Final shall extend over a period of one academic year and a half (four terms). No candidate shall be admitted to the B.Sc. (Pharmacy) Final Examination unless he has passed the B.Sc. (Pharmacy) Preliminary Examination not less than one year previous to appearing for the Final Examination and has undergone the course of instruction in the prescribed subjects, viz.,—

- (a) Pharmaceutical Chemistry.
- (b) Pharmaceutics.
- (c) Practical Pharmacognosy.

12. The Final Examination shall consist of written, practical and oral examinations, and the scheme of examination shall be as follows:—

| | Hours. | Marks. |
|---|--------|--------|
| Pharmaceutical Chemistry (Written) ... | 3 | 100 |
| Pharmaceutics. (Written) | 3 | 100 |

| | Hours. | Marks. |
|---|--------|--------|
| Pharmaceutical Chemistry (Practical)— | 12 | 200 |
| (2 days of 6 hours each). | | |
| Pharmaceutics (Practical) | 4 | 100 |
| Practical Pharmacognosy (Practical) | 4 | 100 |
| Pharmaceutical Chemistry (Oral) | ... | 50 |
| Pharmaceutics (Oral) | ... | 25 |
| Practical Pharmacognosy (Oral) | ... | 25 |
| Total | ... | 700 |

The Oral Examination for each candidate shall last 20 minutes.

13. A candidate for the examination shall be declared to have passed the examination if he obtains in Pharmaceutical Chemistry and in Pharmaceutics not less than one-half of the marks in the practical part and not less than one-half of the marks in the written and oral parts taken together, and in Practical Pharmacognosy not less than one-half of the marks in the practical and oral parts taken together.

14. A candidate who fails in the examination, but obtains passing marks in any subject shall be exempted from re-examination in that subject.

15. Candidates who pass the whole examination at their first appearance shall be arranged in two classes in the order of proficiency—the first consisting of those who obtain 65 per cent. of the total marks and the second consisting of the others.

Classification of successful candidates. Candidates who pass in the first class and who obtain not less than 75 per cent. of the marks in any subject shall be declared to have passed with distinction in that subject.

Candidates who pass the whole examination at a subsequent appearance shall be ranked only in the second class.

Candidates who complete the examination by passing subject by subject shall be placed in the second class separately.

16. A candidate who fails in any subject or subjects shall be required to undergo a further course of study for at least one academic term before appearing for the succeeding examination.

Further study for failed candidates
Final.

17. Candidates may be allowed, at the discretion of the Examiners, to bring to the Practical Examination in any of the subjects in the Preliminary or Final Examination any book or books they choose. The candidates shall be required to bring to the Practical Examinations their original laboratory note-books for inspection by the Examiners.

Submission of Laboratory note-books.

CHAPTER LXIII.

*Degree of Bachelor of Engineering (B.E.)

1. Candidates for the Degree of Bachelor of Engineering shall be required to have passed the Intermediate Examination in Arts and Science in this University with Physics, Chemistry and Mathematics as optional subjects, or an examination in some other University accepted by the Syndicate as equivalent thereto and subsequently to have attended a constituent or an affiliated college of Engineering for a period of not less than four academic years. They shall be further required to have passed the B.E. Degree Examination.

FIRST EXAMINATION IN ENGINEERING.

2. Candidates may present themselves for examination in Part I after undergoing a course of study for a period of one academic year, and for Part II after undergoing a course of study extending over a period of two academic years, in the following subjects:—

Part I.

GROUP A.

| | | Hours. | Maximum Marks. | |
|----|---------------|--------|----------------|-----------------|
| | | | Examination. | Sessional Work. |
| 1. | Mathematics I | ... 3 | 100 | ... |
| 2. | Physics | ... 3 | 100 | 50 |
| 3. | Chemistry | ... 3 | 100 | 50 |

GROUP B.

| | | | | |
|----|---------------------|-------|-----|-----|
| 4. | Applied Mechanics I | ... 3 | 100 | ... |
| 5. | Civil Engineering I | ... 3 | 100 | ... |
| 6. | Geometrical Drawing | ... 3 | 100 | 50 |

* For the B.E. Degree under the Old Regulations *vide* Vol. I, Part II, Calendar, 1939-40.

Part II.

GROUP A.

| | | | Hours. | Maximum Marks. | |
|-----|-------------------------------|-----|--------|-------------------|--------------------|
| | | | | Examin- ation. | Sessional Work. |
| 7. | Mathematics II | ... | 3 | 100 | ... |
| 8. | Electrical Engineering | ... | 3 | 100 | ... |
| 9. | Mechanical Engineering | ... | 3 | 100 | ... |
| 10. | Machine Drawing and Design | ... | 3 | 100 | 50 |

GROUP B.

| | | | | |
|-----|----------------------|-------|-----|-----|
| 11. | Applied Mechanics II | ... 3 | 100 | ... |
| 12. | Civil Engineering II | ... 3 | 100 | ... |
| 13. | Surveying | ... 3 | 100 | ... |
| 14. | Building and Drawing | ... 3 | 100 | 50 |

GROUP C.

| | | | | |
|-----------------------|-------------------------|-------|-----|----|
| Strength of Materials | | | | |
| | Laboratory | ... | ... | 50 |
| | Workshop | ... | ... | 50 |
| | Surveying—Practical : | | 50 | 50 |
| | Field Work | ... 4 | | |
| | Plotting or Calculation | ... 2 | | |
| | Electrical Engineering | ... | | |
| | Laboratory | ... | ... | 50 |

3. Candidates obtaining not less than 33 per cent. of the marks in each of the Groups of Part I, and not less than 40 per cent. in the aggregate of Part I shall be declared to have passed Part I of the examination.

Candidates obtaining not less than 33 per cent. in each of the Groups of Part II and not less than 50 per cent. in the aggregate of Part II shall be declared to have passed Part II of the examination.

4. Candidates for Part I who fail in any Group but obtain 40 per cent. in the aggregate of the Part, and candidates for Part II who fail in any Group but obtain 50 per cent. in the aggregate of the Part shall be exempted from examination in the Group or Groups in which they have passed.

5. No candidate shall be admitted to Part II of the examination unless he has passed Part I of the examination or is exempted from examination in a Group under Regulation 4.

Admission to Part II of the examination.

6. Candidates who pass Parts I and II of the examination on the first occasion of appearing therefor, shall be ranked in the order of proficiency as determined by the total marks obtained by each. Those obtaining 60 per cent. in the aggregate shall be placed in the First Class, the rest in the Second Class.

Classification of successful candidates.

All the candidates who pass the examination at a subsequent appearance, or group by group, shall be ranked in the Second Class separately.

7. Candidates who complete the F.E. Course in March 1944 or March 1945 shall appear for Parts I and II together under the New Regulations.

BACHELOR OF ENGINEERING EXAMINATION.

8. Candidates for the Bachelor of Engineering Examination shall be examined in one of the Branches, Civil, Mechanical, Electrical, Electrical Communication, Highway or Aeronautical. They shall be required to have passed the F.E. and to have attended a constituent or an affiliated college of Engineering.

**B.E.—
Conditions of admission and course of study.**

9. Candidates in the different branches shall be examined in the subjects shown under, by question papers and the prescribed practical tests.

Scheme of examination.

Civil Branch.

Part I.

GROUP A.

| | Hours. | Maximum Marks. | |
|--|--------|----------------|-----------------|
| | | Examination. | Sessional Work. |
| 1. Mathematics III* ... | | 100 | |
| 2. Strength of Materials and Theory of Structures I* ... | | 100 | |
| 3. Hydraulics I* ... | | 100 | |

* Common papers.

| GROUP B. | | | |
|--|--------|-------------------|--------------------|
| | Hours. | Maximum Marks. | |
| | | Examin- ation. | Sessional Work. |
| 4. Structural Engineering I*... | 3 | 100 | ... |
| 5. Railway and Highway Engineering ... | 3 | 100 | ... |
| 6. Geology ... | 3 | 100 | ... |
| GROUP C. | | | |
| Strength of Materials Labo- ratory ... | | ... | 50 |
| Hydraulics Laboratory ... | | ... | 50 |
| Survey—Practical ... | | ... | 75 |
| Geology Laboratory ... | | ... | 25 |
| Drawing ... | | ... | 50 |
| Estimating and quantity surveying ... | | ... | 50 |
| Part II. | | | |
| GROUP A. | | | |
| 7. Strength of Materials and Theory of Structures II* ... | 3 | 100 | ... |
| 8. Structural Engineering II... .. | 3 | 100 | ... |
| 9. Hydraulics and Hydraulic Machinery II (Civil) ... | 3 | 100 | ... |
| 10. Design and Drawing I ... | 3 | 100 | ... |
| GROUP B. | | | |
| 11. Surveying ... | 3 | 100 | ... |
| 12. Irrigation, Docks and Har- bours ... | 3 | 100 | ... |
| 13. Sanitary Engineering ... | 3 | 100 | ... |
| 14. Design and Drawing II ... | 3 | 100 | ... |
| GROUP C. | | | |
| Strength of Materials Laboratory ... | 3 | 75 | 75 |
| Hydraulics Laboratory ... | 3 | 75 | 50 |
| Survey—Practical : | | | |
| Field Work ... | 4 | 75 | 75 |
| Calculation, etc. ... | 2 | | |
| Workshops ... | | ... | 50 |
| Design and Drawing ... | | ... | 150 |
| Estimating and Ground Tracing ... | | ... | 50 |

*Common papers.

Mechanical Branch.

Part I.

GROUP A.

| | | Hours. | Maximum Marks. | |
|----|---|--------|----------------|-----------------|
| | | | Examination. | Sessional Work. |
| 1. | Mathematics III* | 3 | 100 | ... |
| 2. | Strength of Materials and Theory of Structures I* | 3 | 100 | ... |
| 3. | Hydraulics I* | 3 | 100 | ... |

GROUP B.

| | | | | |
|--------|---------------------------|---|-----|-----|
| 4. | Structural Engineering I* | 3 | 100 | ... |
| | <i>or</i> | | | |
| 4 (a). | Auto Engineering | 3 | 100 | ... |
| 15. | Heat Engines I | 3 | 100 | ... |
| 16. | Electrical Technology I* | 3 | 100 | ... |

GROUP C.

| | | | | |
|------------------------|-----------------------|-----|-----|----|
| Strength of Materials | | | | |
| | Laboratory | ... | ... | 50 |
| | Hydraulics Laboratory | ... | ... | 50 |
| Electrical Engineering | | | | |
| | Laboratory | ... | ... | 50 |
| Mechanical Engineering | | | | |
| | Laboratory | ... | ... | 50 |
| | Workshop | ... | ... | 50 |
| | Drawing | ... | ... | 50 |

Part II.

GROUP A.

| | | | | |
|---------|--|---|-----|-----|
| 17. | Heat Engines II | 3 | 100 | ... |
| 18. | Electrical Technology II* | 3 | 100 | ... |
| 19. | Theory of Machines | 3 | 100 | ... |
| 20. | Hydraulics and Hydraulic Machinery II* (Mechanical and Electrical) | 3 | 100 | ... |
| | <i>or</i> | | | |
| 20 (a). | Aero Engineering | 3 | 100 | ... |

*Common papers.

GROUP B.

| | | Hours. | Maximum Marks. | |
|-----|--|--------|-------------------|--------------------|
| | | | Examin- ation. | Sessional Work. |
| 21. | Fuels, Gas Plant and Boilers. | 3 | 100 | ... |
| 22. | Workshop Practice and Machine Tools | ... 3 | 100 | ... |
| 23. | Design and Drawing | ... 3 | 100 | ... |
| 24. | Engineering Economics | ... 3 | 100 | ... |

GROUP C.

| | | | | |
|------------------------|--------------------|-------|-----|-----|
| Mechanical Engineering | | | | |
| | Laboratory | ... 4 | 100 | 75 |
| Electrical Engineering | | | | |
| | Laboratory | ... 3 | 50 | 50* |
| Hydraulic Engineering | | | | |
| | Laboratory | ... 3 | 50 | 50 |
| | Workshops | ... 8 | 100 | 75 |
| | Design and Drawing | ... | ... | 100 |

Electrical Branch.

Part I.

GROUP A.

| | | | | |
|----|--|-------|-----|-----|
| 1. | Mathematics III* | ... 3 | 100 | ... |
| 2. | Strength of Materials and Theory of Structures I* | ... 3 | 100 | ... |
| 3. | Hydraulics I* | ... 3 | 100 | ... |

GROUP B.

| | | | | |
|-----|---|-------|-----|-----|
| 25. | Heat Engines I* | ... 3 | 100 | ... |
| 26. | Theory and Calculation of Electrical Apparatus I | ... 3 | 100 | ... |
| 27. | Design and Drawing I* | ... 3 | 100 | ... |

GROUP C.

| | | | | |
|------------------------|-----------------------|-----|-----|----|
| Strength of Materials | | | | |
| | Laboratory | ... | ... | 50 |
| | Hydraulics Laboratory | ... | ... | 50 |
| Electrical Engineering | | | | |
| | Laboratory | ... | ... | 50 |
| Mechanical Engineering | | | | |
| | Laboratory | ... | ... | 50 |
| | Workshop | ... | ... | 50 |
| | Drawing | ... | ... | 50 |

* Common papers.

Part II.**GROUP A.**

| | | Hours. | Maximum Marks. | |
|-----|--|--------|----------------|-----------------|
| | | | Examination. | Sessional Work. |
| 28. | Heat Engines II ... | 3 | 100 | ... |
| 29. | Electrical Theory Measurements ... | 3 | 100 | ... |
| 30. | Theory and Calculation of Electrical Apparatus II... | 3 | 100 | ... |
| 20. | Hydraulics and Hydraulic Machinery II* (Mechanical and Electrical) ... | 3 | 100 | ... |

GROUP B.

| | | | | |
|-----|---|---|-----|-----|
| 31. | Generation and Utilisation. | 3 | 100 | ... |
| 32. | Transmission and Distribution ... | 3 | 100 | ... |
| 33. | Design, Estimate and Drawing of Electric Supply Systems ... | 3 | 100 | ... |
| 34. | Design and Drawing II ... | 3 | 100 | ... |

GROUP C.

| | | | |
|---------------------------------------|-----|-----|-----|
| Electrical Engineering Laboratory ... | 4 | 150 | 100 |
| Mechanical Engineering Laboratory ... | 3 | 50 | 50 |
| Hydraulic Engineering Laboratory ... | 3 | 50 | 50 |
| Workshops ... | 4 | 50 | 50 |
| Design and Drawing ... | ... | ... | 100 |

Electrical Communication Branch.**Part I.****GROUP A.**

| | | | | |
|-----|--|---|-----|-----|
| 1. | Mathematics III* ... | 3 | 100 | ... |
| 2. | Strength of Materials and Theory of Structures I*. | 3 | 100 | ... |
| 35. | Engineering Electronics I. | 3 | 100 | ... |

* Common papers.

GROUP B.

| | Hours. | Maximum Marks. | |
|--|--------|----------------|-----------------|
| | | Examination. | Sessional Work. |
| 25. Heat Engines I* (as for Electrical Branch) ... | 3 | 100 | ... |
| 16. Electrical Technology I* (as for Mechanical Branch). | 3 | 100 | ... |
| 27. Design and Drawing I* (as for Electrical Branch) ... | 3 | 100 | ... |

GROUP C.

| | | | |
|---------------------------------------|--|--|----|
| Strength of Materials Laboratory ... | | | 50 |
| Electrical Engineering Laboratory ... | | | 50 |
| Radio Engineering Laboratory .. | | | 50 |
| Mechanical Engineering Laboratory | | | 50 |
| Workshop | | | 50 |
| Drawing | | | 50 |

Part II.

GROUP A.

| | | |
|--|---|-----|
| 36. Engineering Electronics II. | 3 | 100 |
| 37. High Frequency Measurements ... | 3 | 100 |
| 18. Electrical Technology II* (as for Mechanical Branch) ... | 3 | 100 |
| 38. Transmission Circuits ... | 3 | 100 |

GROUP B.

| | | |
|---|---|-----|
| 39. Broadcasting (Reception) I. | 3 | 100 |
| 40. Broadcasting (Transmission) II * | 3 | 100 |
| 41. Wire Communication I (Telegraphy) ... | 3 | 100 |
| 42. Wire Communication II (Telephony) ... | 3 | 100 |

* Common papers.

GROUP C.

| | Hours. | Maximum Marks. | |
|--|--------|-------------------|--------------------|
| | | Examin- ation. | Sessional Work. |
| Electrical Engineering | | | |
| Laboratory ... | 3 | 50 | 50 |
| Design and Drawing ... | | ... | 50 |
| Radio Engineering Labo- ratory ... | 4 | 125 | 125 |
| Telegraphy and Telephony Laboratory ... | 3 | 75 | 75 |
| Workshops ... | 4 | 50 | 50 |

Highway Branch.

Part I.

Same as for Civil Branch Part I.

Part II.

GROUP A.

| | | | |
|---|---|-----|--|
| 7. Strength of Materials and Theory of Structures II*. | 3 | 100 | |
| 43. Bridge Engineering ... | 3 | 100 | |
| 44. Bridge Design and Drawing. | 3 | 100 | |
| 45. Geology and Chemistry of Road Materials ... | 3 | 100 | |

GROUP B.

| | | | |
|---------------------------------------|---|-----|--|
| 46. Surveying ... | 3 | 100 | |
| 47. Highway Engineering I ... | 3 | 100 | |
| 48. " " II ... | 3 | 100 | |
| 49. Highway Design and Drawing ... | 3 | 100 | |

GROUP C.

| | | | |
|---|---|-----|-----|
| Strength of Materials Labo- ratory ... | 3 | 50 | |
| Road Laboratory ... | 3 | 100 | |
| Survey—Practical : | | | |
| Field work 4 } | 6 | 50 | 50 |
| Calculation, etc. 2 } | | | |
| Design and Drawing ... | | | 100 |
| Project and Ground Tracing | 3 | | 50 |
| Geology and Chemistry Laboratories | | | |

Aeronautical Branch.

Part I.

GROUP A.

| | Hours. | Maximum Marks. | |
|--|--------|----------------|-----------------|
| | | Examination. | Sessional Work. |
| 1. Mathematics III* ... | 3 | 100 | ... |
| 2. Strength of Materials and Theory of Structures I* ... | 3 | 100 | ... |
| 3. Hydraulics I* ... | 3 | 100 | ... |

GROUP B.

| | | | |
|--|---|-----|-----|
| 50. Applied Mechanics III and simple theory of flight... | 3 | 100 | ... |
| 51. Airplane structures ... | 3 | 100 | ... |
| 52. Aircraft engines and control systems ... | 3 | 100 | ... |

GROUP C.

| | | |
|---|-----|----|
| Strength of Materials Laboratory ... | ... | 50 |
| Hydraulics Laboratory ... | ... | 50 |
| Aircraft drafting ... | ... | 50 |
| Construction of airplane parts ... | ... | 50 |
| Instruments — testing and calibration ... | ... | 50 |
| Workshops ... | ... | 50 |

Part II.

GROUP A.

| | | | |
|--------------------------------|---|-----|-----|
| 53. Fluid Mechanics ... | 3 | 100 | ... |
| 54. Technical Aerodynamics ... | 3 | 100 | ... |
| 55. Air Navigation ... | 3 | 100 | ... |
| 56. Meteorology ... | 3 | 100 | ... |

GROUP B.

| | | | |
|----------------------------------|---|-----|-----|
| 57. Airplane design ... | 3 | 100 | ... |
| 58. Aircraft stress analysis ... | 3 | 100 | ... |
| 59. Design practice ... | 3 | 100 | ... |
| 60. Production planning ... | 3 | 100 | ... |

* Common Papers.

GROUP C.

| | Hours. | Maximum Marks. | |
|---|--------|----------------|-----------------|
| | | Examination. | Sessional Work. |
| Aircraft drafting and design ... | | | 100 |
| Testing of airplane structures ... | 4 | 100 | 50 |
| Model Testing and performance reduction ... | 4 | 100 | 100 |
| Workshops ... | 8 | 100 | 100 |

10. Candidates may present themselves for examination in Part I after undergoing a course of study for a period of one academic year and for Part II after undergoing a course of study extending over a period of two academic years after passing the F. E.

Candidates may appear for Parts I and II separately.

11. Candidates obtaining not less than 33 per cent. of marks in each of the groups and not less than 50 per cent. in the aggregate of each part shall be declared to have passed the examination.

Percentage of marks for pass

12. Candidates for Part I or Part II of the examination who fail in any one group but obtain 50 per cent. in the aggregate of the part shall be exempted from re-examination in the groups in which they have passed.

Exemption from re-examination in passed subjects.

13. No candidate shall be admitted to Part II of the examination unless he has passed Part I of the examination or is exempted from re-examination in a group or groups under Regulation 12.

Admission to Part II of the examination.

14. Candidates who have passed Parts I and II of the examination on the first occasion of their appearing therefor shall be ranked in the order of proficiency as determined by the total marks obtained by each in both parts and shall be arranged in two classes, the First Class consisting of those

Classification of successful candidates.

LXIII] DEGREE OF BACHELOR OF ENGINEERING.

who have obtained not less than 60 per cent. in the aggregate marks, the Second Class consisting of all others.

Candidates who pass in the First Class and who obtain not less than 66 per cent. in the aggregate marks shall be deemed to have passed with Honours.

Candidates who pass the whole examination at a subsequent appearance or group by group shall be separately ranked in the Second Class.

15. Candidates who complete the B.E. Degree Course in March 1944 or March 1945 and have passed the F. E. Examination, shall appear for Parts I and II together under the New Regulations.

16. Candidates who have passed the B. E. Degree Examination in Mechanical, Electrical or Electrical Communication Branch may present themselves for the examination in any of the other two Branches after undergoing a course of study in that Branch for one academic year.

Candidates obtaining not less than 50 per cent. in the aggregate of the marks of the written and practical examinations prescribed below for the Branch will be considered to have qualified in that Branch.

Candidates in the different Branches shall be examined in the subjects shown as under by question papers and prescribed practical tests.

(a) Candidates who have passed the B. E. Degree Examination in Mechanical Engineering and who wish to qualify for the Electrical or Electrical Communication Branch shall be examined as under:—

For Electrical Branch.

| | Hours. | Maximum Marks. | |
|---|--------|-------------------|--------------------|
| | | Examin- ation. | Sessional Work. |
| 26. Theory and Calculation of Electrical Apparatus I ... | | 100 | ... |
| 27. Design and Drawing I ... | | 100 | ... |
| 29. Electrical Theory and Measurements ... | | 100 | ... |
| 30. Theory and Calculation of Electrical Apparatus II... | | 100 | ... |

| | Hours. | Maximum Marks. | |
|---|--------|----------------|-----------------|
| | | Examination. | Sessional Work. |
| 31. Generation and Utilisation. | 3 | 100 | ... |
| 32. Transmission and Distribution | 3 | 100 | ... |
| 33. Design, Estimate and Drawing of Electric Supply Systems | 3 | 100 | ... |
| 34. Design and Drawing II | 3 | 100 | ... |
| Electrical Engineering Laboratory | 4 | 150 | 100 |
| Design and Drawing | ... | ... | 100 |
| | | <u>950</u> | <u>200</u> |
| Total | ... | | <u>1,150</u> |

For Electrical Communication Branch.

| | | | |
|--|-----|--------------|--------------|
| 27. Design and Drawing I (as for Electrical) | 3 | 100 | ... |
| 35. Engineering Electronics I. | 3 | 100 | ... |
| 36. Engineering Electronics II. | 3 | 100 | ... |
| 37. High Frequency Measurements | 3 | 100 | ... |
| 38. Transmission Circuits | 3 | 100 | ... |
| 39. Broadcasting (Reception) I. | 3 | 100 | ... |
| 40. Broadcasting (Transmission) II | 3 | 100 | ... |
| 41. Wire Communication I (Telegraphy) | 3 | 100 | ... |
| 42. Wire Communication II (Telephony) | 3 | 100 | ... |
| Radio Engineering Laboratory | 4 | 125 | 125 |
| Telegraphy and Telephony Laboratory | 3 | 75 | 75 |
| Design and Drawing | ... | ... | 50 |
| | | <u>1,100</u> | <u>250</u> |
| Total | ... | | <u>1,350</u> |

(b) Candidates who have passed the B. E. Degree Examination in Electrical Engineering and who wish to qualify for the Electrical Communication or Mechanical Branch shall be examined as under:—

For Electrical Communication Branch.

| | Hours. | Maximum Marks. | |
|---|--------|----------------|-----------------|
| | | Examination. | Sessional Work. |
| 35. Engineering Electronics I. | | 100 | * ... |
| 36. Engineering Electronics II. | | 100 | ... |
| 37. High Frequency Measurements ... | | 100 | ... |
| 38. Transmission Circuits ... | | 100 | ... |
| 39. Broadcasting (Reception) I. | | 100 | ... |
| 40. Broadcasting (Transmission) II ... | | 100 | |
| 41. Wire Communication I (Telegraphy) ... | | 100 | |
| 42. Wire Communication II (Telephony) ... | | 100 | |
| Radio Engineering Laboratory ... | | 125 | 125 |
| Telegraphy and Telephony Laboratory ... | | 75 | 75 |
| | | 1,000 | 200 |
| Total | | | 1,200 |

For Mechanical Branch.

| | | |
|---|---|-----|
| 4. Structural Engineering or } | 3 | 100 |
| 4 (a) Auto-Engineering } | | |
| 15. Heat Engines I (as for Mechanical) ... | 3 | 100 |
| 17. Heat Engines II (as for Mechanical) ... | 3 | 100 |
| 19. Theory of Machines* ... | 3 | 100 |
| 21. Fuels, Gas Plant and Boilers ... | 3 | 100 |

* *Note.*—Candidates who have qualified for the B.E. Degree Examination in Electrical Branch according to the Old Regulations will not be required to appear for *Theory of Machines*.

| | | Hours. | Maximum Marks. | |
|-------|---|--------|----------------|-----------------|
| | | | Examination. | Sessional Work. |
| 22. | Workshop Practice and Machine Tools ... | 3 | 100 | ... |
| 23. | Design and Drawing ... | 3 | 100 | ... |
| 24. | Engineering Economics ... | 3 | 100 | ... |
| | Mechanical Engineering Laboratory ... | 4 | 100 | 75 |
| | Workshops ... | 8 | 100 | 75 |
| | Design and Drawing ... | | ... | 100 |
| | | | <hr/> 1,000 | <hr/> 250 |
| Total | | | | <hr/> 1,250 |

(c) Candidates who have passed the B. E. Degree Examination in Electrical Communication Engineering and who wish to qualify for the Electrical or Mechanical Branch shall be examined as under:—

For Electrical Branch.

| | | Hours. | Maximum Marks. | |
|-----|---|--------|----------------|-----------------|
| | | | Examination. | Sessional Work. |
| 3. | Hydraulics I ... | 3 | 100 | ... |
| 20. | Hydraulics and Hydraulic Machinery II ... | 3 | 100 | ... |
| 26. | Theory and Calculation of Electrical Apparatus I... | 3 | 100 | ... |
| 28. | Heat Engines II ... | 3 | 100 | ... |
| 29. | Electrical Theory and Measurements ... | 3 | 100 | ... |
| 30. | Theory and Calculation of Electrical Apparatus II... | 3 | 100 | ... |
| 31. | Generation and Utilisation. | 3 | 100 | ... |
| 32. | Transmission and Distribution ... | 3 | 100 | ... |
| 33. | Design, Estimate and Drawing of Electric Supply Systems ... | 3 | 100 | ... |
| 34. | Design and Drawing II ... | 3 | 100 | ... |
| | Electrical Engineering Laboratory ... | 4 | 150 | 100 |

| | Hours. | Maximum Marks. | |
|------------------------|--------|-------------------|--------------------|
| | | Examin- ation. | Sessional Work. |
| Mechanical Engineering | | | |
| Laboratory . . | 3 | 50 | 50 |
| Hydraulic Engineering | | | |
| Laboratory . . | 3 | 50 | 50 |
| Design and Drawing . | | ... | 100 |
| | | <hr/> | <hr/> |
| | | 1,250 | 300 |
| | | | <hr/> |
| Total | | | 1,550 |

For Mechanical Branch.

| | | | | |
|------------------------------|-----|---|-------|-------|
| 3. Hydraulics I | ... | 3 | 100 | |
| 4. Structural Engineering or | } | 3 | 100 | |
| 4 (a) Auto-Engineering | | | | |
| 17. Heat Engines II | ... | 3 | 100 | |
| 19. Theory of Machines | ... | 3 | 100 | |
| 20. Hydraulics and Hydraulic | } | 3 | 100 | |
| Machinery II or | | | | |
| 20 (a) Aero Engineering | | | | |
| 21. Fuels, Gas Plant and | | | | |
| Boilers | ... | 3 | 100 | |
| 22. Workshop Practice and | | | | |
| Machine Tools | ... | 3 | 100 | |
| 23. Design and Drawing | ... | 3 | 100 | |
| 24. Engineering Economics | ... | 3 | 100 | |
| Mechanical Engineering | | | | |
| Laboratory | ... | 4 | 100 | 75 |
| Hydraulic Engineering | | | | |
| Laboratory | ... | 3 | 50 | 50 |
| Workshops | ... | 8 | 100 | 75 |
| Design and Drawing | ... | | ... | 100 |
| | | | <hr/> | <hr/> |
| | | | 1,150 | 300 |
| | | | | <hr/> |
| Total | ... | | | 1,450 |

(d) Candidates who have passed the B. E. Degree Examination in Civil Branch or Highway Branch may present themselves for examination in the other Branch after undergoing a course of study in that branch for one academic year.

Candidates obtaining not less than 50 per cent. in the aggregate of the marks in the subjects prescribed below, for the Branch, will be considered to have qualified in that Branch.

(i) Candidates who have passed the B. E. Degree Examination in the Civil Branch and who wish to qualify for the Highway Branch shall be examined as under:—

For Highway Branch.

| | | | Maximum Marks. | |
|--|--------|--|-------------------|--------------------|
| | | | Examin- ation. | Sessional Work. |
| | Hours. | | | |
| 43. Bridge Engineering ... | 3 | | 100 | ... |
| 44. Bridge Design and Drawing. | 3 | | 100 | ... |
| 45. Geology and Chemistry of Road Materials ... | 3 | | 100 | ... |
| 46. Surveying ... | 3 | | 100 | ... |
| 47. Highway Engineering I ... | 3 | | 100 | ... |
| 48. Do. II ... | 3 | | 100 | ... |
| 49. Highway Design and Drawing ... | 3 | | 100 | ... |
| Road Laboratory ... | 3 | | 100 | 50 |
| Survey—Practical : | | | | |
| Field work 4 } | 6 | | 50 | 50 |
| Calculation, etc. 2 } | | | | |
| Design and Drawing ... | | | ... | 100 |
| Project and Ground Tracing ... | 3 | | 50 | 50 |
| Geology and Chemistry Laboratories ... | 3 | | 50 | 50 |
| | | | 950 | 300 |
| Total ... | | | | 1,250 |

(ii) Candidates who have passed the B. E. Degree Examination in Highway Branch and who wish to qualify for the Civil Branch shall be examined as under:—

For Civil Branch.

| | | | Maximum Marks. | |
|---------------------------------|--------|--|-------------------|--------------------|
| | | | Examin- ation. | Sessional Work. |
| | Hours. | | | |
| 8. Structural Engineering II... | 3 | | 100 | ... |

| | | Hours. | Maximum Marks. | |
|-----|---------------------------------------|--------|----------------|----------------|
| | | | Examination. | Sessions Work. |
| 9. | Hydraulics and Hydraulic Machinery II | ... 3 | 100 | ... |
| 10. | Design and Drawing I | ... 3 | 100 | ... |
| 11. | Surveying | ... 3 | 100 | ... |
| 12. | Irrigation, Docks and Harbours | ... 3 | 100 | ... |
| 13. | Sanitary Engineering | ... 3 | 100 | ... |
| 14. | Design and Drawing II | ... 3 | 100 | ... |
| | Hydraulic Laboratory | ... 3 | 75 | 50 |
| | Survey—Practical : | | | |
| | Field work | 4 } | 75 | 75 |
| | Calculation, etc | 2 } | | |
| | Workshops | ... | ... | 50 |
| | Design and Drawing | ... | ... | 150 |
| | Estimating and Ground Tracing | ... | ... | 50 |
| | | | 850 | 375 |
| | Total | ... | | 1,225 |

First Examination in Engineering.

17 (a) Candidates who complete the F.E. Course before March 1944, shall be permitted to appear for the F.E. Examination according to the Old Regulations.

This Regulation shall be in force till 1946.

Bachelor of Engineering Examination.

(b) Candidates who complete the B.E. Degree Course before March 1944 and those who pass the F.E. Examination according to the Old Regulations in or after 1944 shall be permitted to appear for the B.E. Degree Examination according to the Old Regulations.

This Regulation shall be in force till 1949.

*Note:—*The sessional work of the candidates for the F.E. and B.E. Degree Examinations shall be assessed by the Examiners appointed by the University for the purpose.

CHAPTER LXIV.

Degree of Bachelor of Teaching (B.T.)

1. No candidate shall be eligible for the Degree of Bachelor of Teaching unless he has taken a Degree in this University or a Degree in some other University accepted by the Syndicate as equivalent thereto and has also passed the prescribed examination.

Eligibility for admission to Examination. 2. No candidate shall be admitted to the B.T. Degree Examination, unless he forwards before the date of the commencement of the Examination satisfactory evidence of having qualified for a Degree in this University or in some other University accepted by the Syndicate as equivalent thereto, and produces before the examination a certificate that he has undergone the prescribed course in a Constituent or an Affiliated Training College.

Course of Study. 3. The course of study, which shall last for one academic year, shall include—

- (i) A. General Principles of Education.
- B. Educational Psychology.
- C. General Methods.
- D. School Organisation and Hygiene.
- E. Methods appropriate to the teaching of two of the following subjects :—
 - (a) An Indian Language.
 - (b) English.
 - (c) Primary Education.
 - (d) Mathematics.
 - (e) Physical Science.
 - (f) Natural Science.
 - (g) History.
 - (h) Geography.
 - (i) Home Science.
 - (j) Music.

(For Syllabuses *vide* Appendix XII).

- (ii) Practical training including observation and practice in teaching, the making of teaching equipment and school organisation.
- (iii) Candidates shall also undergo courses in
(a) Physical Education and (b) Art or Music or Crafts as prescribed by the College.

Scheme of Examination.

4. (a) *Written Examination*—The subjects and the scheme of examination shall be as follows :—

| | Hours. | Marks. |
|---|----------------|--------|
| 1. Theory of Education A. B. ... (This paper shall consist of two questions under A and four questions under B). | | 100 |
| 2. General Methods (C) ... | 2½ | 75 |
| 3. School Organisation and Hygiene (D). ... | 2½ | 75 |
| 4. Methods of Teaching, (E) Optional Subjects— <i>Two</i> of the following :— | | |
| (a) An Indian Language. | | |
| (b) English | | |
| (c) Primary Education. | | |
| (d) Mathematics. | | |
| (e) Physical Science. | } 2½ hrs. each | 75 |
| (f) Natural Science. | | |
| (g) History. | | |
| (h) Geography. | | |
| (i) Home Science. | | |
| (j) Music. | } | |
| | | |

Total (5 papers) ... 400

(b) *Practical Tests* :—

Each College shall be responsible to the University for conducting Practical Tests in Teaching and shall report to the University in the month of February the names of students approved or deferred.

The report of the College in the case of each student shall be based on Lecturers' reports of at least 5 lessons in

each subject. Each lesson shall be reported on separately. The Lecturers' reports shall be filed for reference by the University in the case of students not approved by the College.

In the case of candidates deferred by the College a further Practical Test shall be conducted by the University.

5. No candidate shall be admitted to the B.T. Degree unless he has passed both the Practical Test and the Written Examination:

Passing minimum.

Provided, however, that a candidate who fails in the Practical Test and passes in the Written Examination shall be regarded as having failed in the Practical Test only and shall be permitted to appear again for the Practical Test, and *vice versa*.

A candidate shall not be permitted to appear for the Practical Test on more than two occasions; provided, however, it shall be competent for the Syndicate, if the Board of Examiners so recommend, to permit the candidate to appear on a third occasion.

A candidate shall be declared to have passed the Written Examination if he obtains (i) not less than 35 per cent. in each of the five papers and (ii) not less than 40 per cent. in the five papers taken together. All other candidates shall be deemed to have failed in the examination.

Of the successful candidates, those who obtain not less than 60 per cent. of the total marks shall be placed in the First Class, and those who obtain not less than 50 per cent. of the total marks shall be placed in the Second Class. The remaining successful candidates shall be placed in the Third Class.

Classification of successful candidates.

Successful candidates who obtain not less than 60 per cent. of the marks in a paper relating to 4 (Methods of Teaching) shall be declared to have obtained distinction in that subject.

6. Notwithstanding anything contained in Regulation 2 above, about the duration of the prescribed course, it shall be competent for the Syndicate to admit to the B.T. Degree Examination certificated *bona fide* trained teachers who have passed the B.A. Degree Examination and who have undergone a course of instruction in a Constituent or an Affiliated Training College for Teachers during the third term and attended a vacation course conducted by a Constituent or an Affiliated Training College for Teachers and who satisfy the general rules relating to the grant of exemption to *bona fide* certificated trained teachers prescribed by the Syndicate for admission to the Matriculation, Intermediate and B.A. Degree Examinations.

7. A candidate who has taken the B.T. Degree shall be permitted to appear again for the examination in a new subject or subjects under Section E. *Methods of Teaching*, provided that he has taken a Pass Degree or a University Diploma in the additional subject or subjects selected, and has had at least three years of teaching experience in such a subject or subjects.

He shall be declared to have passed the examination if he obtains not less than 40 per cent. of the marks in each new subject.

Such candidates shall not be admitted at a Convocation a second time, but special certificates setting forth the additional subject or subjects passed by them and the dates of such examination shall be given to them.

CHAPTER LXV.

Degree of Master of Education (M.Ed.)

**Eligibility for
admission to
the Course
and the
Examination.**

1. No candidate shall be admitted to the course unless he has taken the B.T. Degree of this University or a Degree in some other University accepted by the Syndicate as equivalent thereto.

The course may be taken immediately after the B.T. course or equivalent course ; or after an interval of some years, provided the applicant has been engaged in teaching for at least (*a*) one year if the interval between the *two* courses is not more than three years, and (*b*) one-third of the interval in the case of an applicant who has had an interval of more than three years between the *two* courses. (In this connection the word 'teaching' connotes also inspection.)

No candidate shall be eligible for the Degree of M.Ed. unless he has completed the prescribed course of study and has passed the qualifying examination and has satisfied the examiners in a thesis on an approved subject.

Course of Study. 2. The course of study which shall last for one academic year, shall include—

- A. Educational Psychology with emphasis on Experimental Education.
- B. Educational Organisation and Administration.
- C. History of Education.
- D. Current Problems in Indian Education—
Six problems to be specified by the Department from time to time.
- E. Thesis—Candidates shall be required to submit a thesis in a subject approved by the University. The thesis shall be prepared under the direction of a Teacher approved by the University and submitted two weeks before the M.Ed. Degree Examination.

The subject proposed for the thesis shall be submitted to the University for approval not later than the 31st August.

(For Syllabuses *vide* Appendix XIII).

Scheme of Examination.

3. The subjects and the scheme of examination shall be as follows :—

| | | Hours. | Marks. |
|-------|---|--------|--------|
| 1. | Educational Psychology ... | 3 | 100 |
| 2. | Educational Organisation and Administration ... | 3 | 100 |
| 3. | History of Education ... | 3 | 100 |
| 4. | Current Problems in Indian Education ... | 3 | 100 |
| 5. | Thesis ... | ... | ... |
| Total | | | 400 |

A report on the practical work of each student in Psychology shall be submitted to the Board of Examiners by the Lecturer concerned.

4. Candidates shall be declared to have passed the examination if they obtain not less than 50 per cent. of the marks in each of any two of the papers and not less than 35 per cent. in each of the remaining papers and have satisfied the Examiners in the thesis.

Marks qualifying for a Pass.

CHAPTER LXVI.

Degree of Bachelor of Science in Agriculture.

(B.Sc. Ag.)

1. Candidates for the Degree of Bachelor of Science in Agriculture (B.Sc. Ag.) shall be required—

Conditions of admission. (1) to have passed the Intermediate Examination in Arts and Science of this University or an examination of some other recognised University accepted by the Syndicate as equivalent thereto, having offered as optional subjects Chemistry and any two of the following subjects:—

Mathematics. Physics, Natural Science, Botany, Zoology including Human Physiology, and Agriculture ;

(2) to have undergone subsequently a further course of study in Agriculture extending over three years at a College of Agriculture recognised by or affiliated to this University, and to have passed the examination for the Degree hereinafter prescribed.

Course of Study. 2. The course of study in Agriculture shall comprise both theoretical and practical instruction in the following subjects:—

- (i) Agriculture.
- (ii) Agricultural Botany.
- (iii) Agricultural Chemistry.
- (iv) Agricultural Zoology.
- (v) Agricultural Engineering.
- (vi) Animal Hygiene.

Syllabus. 3. The syllabus of studies under each of the above subjects shall be prescribed from time to time by the Academic Council on the recommendation of the Board of Studies in Agriculture. (For Syllabuses *vide* **Appendix XIV**).

Examinations.

4. For the Degree of B.Sc. in Agriculture there shall be three examinations. No candidate shall be eligible for the Degree unless he has completed the course of study prescribed and passed all the examinations.

5. The examination in each subject shall be both written and practical. In conjunction with each practical examination there may be an oral examination of each candidate. Each candidate shall produce his laboratory and field note-books at the time of the practical examination.

6. The First Examination shall be held at the end of the first year of the course of study and shall be in the following subjects :—

- (i) Agriculture.
- (ii) Botany.
- (iii) Chemistry.
- (iv) Zoology.

7. The Second Examination shall be held at the end of the second year of the course of study and shall be in the following subjects :—

- (i) Agriculture—Plant Husbandry.
- (ii) Agricultural Engineering.
- (iii) Agricultural Zoology.
- (iv) Animal Hygiene.

8. The Final Examination shall be held at the end of the third year of the course of study and shall be in the following subjects :—

- (i) Agriculture—Economics and Farm Management.
- (ii) Agriculture—Animal Husbandry.
- (iii) Agricultural Botany.
- (iv) Agricultural Chemistry.

9. No candidate will be permitted to appear for the Examination unless he produces a certificate of having completed the prescribed course.

10. No candidate shall be permitted to appear for the Second Examination unless he has passed the First Examination.

11. A candidate who fails in not more than one subject in the Second Examination will be permitted to appear for the Final Examination as well as for the examination in the subject in which he has failed.

12. A candidate shall be declared to have passed the First Examination if he obtains not less than 40 per cent. of the marks in each of the four subjects prescribed for the examination.

Marks qualifying for a Pass.

13. A candidate shall be declared to have passed the Second Examination if he obtains not less than 40 per cent. of the marks in each of the four subjects prescribed for the examination.

14. A candidate shall be declared to have passed the Final Examination if he obtains not less than 40 per cent. of the marks in each of the four subjects prescribed for the examination.

15. A candidate who obtains 40 per cent. in any subject in the Second or Final Examination shall be declared to have passed in that subject. Any candidate who passes the Second and Final Examinations at the first appearance with 60 per cent. of the total marks in each examination shall be declared to have passed in the First Class. All other successful candidates shall be declared to have passed in the Second Class. Any candidate who obtains a pass in the Second or Final Examination at the first appearance and secures not less than 75 per cent. of the marks in any subject shall be declared to have passed with distinction in that subject. With regard to Agriculture, however, the marks of the Second and Final Examinations will be considered together for the award of distinction.

Classification of successful candidates.

Successful candidates at the Final Examination shall be ranked in the order of merit.

16. Candidates who fail in the First Examination will be permitted to appear at any subsequent examination on payment of the prescribed fees and need not produce any additional attendance certificate.

Candidates who fail in any of the subjects in the Second and Final Examinations will be permitted to appear in such subjects at any subsequent examination on payment of the prescribed fees and need not produce any additional attendance certificate.

CHAPTER LXVII.

Degree of Bachelor of Veterinary Science (B.V.Sc.).

1. Candidates for the Degree of Bachelor of Veterinary Science (B.V.Sc.) shall be required :—

(1) to have passed the Intermediate Examination in Arts and Science of this University or an examination of some other recognized University accepted by the Syndicate as equivalent thereto, having offered as an optional subject either Chemistry or Natural Science ;

Eligibility for admission to B.V.Sc.

(2) to have subsequently studied for a period of five academic years in a College of Veterinary Science recognised by or affiliated to this University ;

(3) to have passed the B.V.Sc. Preliminary, Intermediate Part I, Intermediate Part II and Final Examinations.

Duration of the course. 2. The course for the Degree of B.V.Sc. shall extend over a period of five academic years (ordinarily consecutive.)

Examinations The examinations for the degree shall consist of a Preliminary, Intermediate Part I, Intermediate Part II, and a Final Examination.

B.V.Sc. Preliminary.

Course of Study. 3. A candidate for this examination shall undergo a course of instruction in the following subjects extending over an academic year:—

(a) Biology.

(b) Chemistry.

Candidates for the above examination shall be examined in each of the above subjects and the examination in each subject shall consist of written, practical and oral parts.

4. Candidates who have passed the Physical or Natural Science group of the B.A., B.Sc., B.Sc. (Honours) or B.A. (Honours) Degree Examination of this University with Chemistry or Zoology as their main optional subject or an examination of any other Indian University accepted by the

Exemption in certain subjects to Graduates in Science subjects.

Syndicate as equivalent thereto, shall be exempted from undergoing the course and the examination in the respective subject in which they have passed the Degree Examination; provided, however, that exemption in the case of graduates of other Universities shall be restricted to not more than one subject which shall be the main subject in which they have obtained the highest proficiency. Such candidates shall, however, be required to pay the fee prescribed for the whole examination.

5. Candidates for the examination shall be declared to have passed the examination if they obtain not less than one half of the marks in the written part and not less than one half of the marks in the practical and oral parts taken together. All other candidates shall be deemed to have failed in the examination.

Passing minimum.

6. Candidates who fail in the examination, but obtain the prescribed minimum marks for a pass in any subject shall be exempted from re-examination in that subject. Candidates who fail more than once in the examination shall revert to the year of study concerned and undergo a further course of study for one term in the subject or subjects in which they failed before they are permitted to reappear for the examination, in which case, the period of study between the first and second appearances spent in the courses for the next higher examination shall not be allowed to count for the grant of the certificates prescribed therefor.

Examination by subjects.

7. Candidates who pass the whole examination at their first appearance shall be arranged in two classes—the first consisting of those who obtain not less than 75 per cent. of the total marks and the second consisting of all others. They shall be arranged in either class in the order of their total marks,

Classification of successful candidates.

8. Candidates who complete the examination by passing subject by subject shall be placed in a separate group in the second class.

B.V.Sc. Intermediate—Part I.

9. The course for the B.V.Sc. Intermediate, Part I shall extend over a period of one academic year. No candidate shall be admitted to the examination unless he has previously passed the B.V.Sc. Preliminary Examination and undergone a course of instruction in the prescribed subjects, *viz.*:—

Course of Study.

- (a) Physiology including Experimental Physiology, Biochemistry and Histology and Embryology.
- (b) Bacteriology including Immunology.

10. Candidates for the examination shall be examined in each of the above subjects and the examination in each subject shall consist of written, practical and oral parts.

Examination.

11. Candidates shall be declared to have passed the Intermediate Part I Examination if they obtain in each subject not less than one half of the marks in the written part and not less than one half of the marks in the practical and oral parts taken together. All other candidates shall be deemed to have failed in the examination.

Passing Minimum.

Candidates who pass the whole examination at their first appearance shall be arranged in two classes—the first consisting of those who have obtained not less than 75 per cent. of the total marks and the second consisting of all others. They shall be arranged in either class in the order of their total marks.

Classification of successful candidates.

12. Candidates who fail in the examination but obtain the prescribed minimum marks for a pass in any subject shall be exempted from re-examination in that subject. Candidates who fail more than once in the examination shall revert to the year of study concerned and undergo a further course of study for one term in the subject or

subjects in which they failed before they are permitted to reappear for the examination, in which case, the period of study between the first and second appearances spent in the courses for the next higher examination shall not be allowed to count for the grant of the certificates prescribed therefor.

13. Candidates who complete the examination by passing subject by subject shall be placed in a separate group in the second class.

B.V.Sc. Intermediate—Part II.

14. The course for the B.V.Sc. Intermediate Part II shall extend over a period of one academic year. No candidate shall be admitted to the examination unless he has passed the B.V.Sc. Intermediate Part I Examination and undergone a course of instruction in the following subjects:—

- Course of Study.**
- (a) Pathology.
 - (b) Parasitology (Helminthology, Entomology and Protozoology).

15. Candidates for the examination shall be examined in each of the above subjects and the examination in each subject shall consist of written, practical and oral parts.

16. Candidates shall be declared to have passed the Intermediate Part II Examination if they obtain in each subject not less than one half of the marks in the written part and not less than one half of the marks in the practical and oral parts taken together. All other candidates shall be deemed to have failed in the examination.

Candidates who pass the whole examination at their first appearance shall be arranged in two classes—the first consisting of those who have obtained not less than 75 per cent. of the total marks and the second consisting of all others. They shall be arranged in either class in the order of their total marks.

17. Candidates who fail in the examination but obtain the prescribed minimum marks for a pass in any subject shall be exempted from re-examination in that subject. Candidates who fail more than once in the examination shall

Classification of successful candidates.

Examination by subjects.

revert to the year of study concerned and undergo a further course of study for one term in the subject or subjects in which they failed before they are permitted to reappear for the examination, in which case, the period of study between the first and second appearances spent in the courses for the next higher examination shall not be allowed to count for the grant of the certificates prescribed therefor.

18. Candidates who complete the examination by passing subject by subject shall be placed in a separate group in the second class.

B.V.Sc. Final.

19. Candidates appearing for this examination shall undergo a course of study in the following subjects, extending over a period of two academic years ordinarily consecutive except in the case of Animal Husbandry (Hygiene) in which the course of instruction shall extend over the third and fifth years of study:—

**Course of
Study.**

- (a) Preventive Medicine including Clinical Medicine and Laboratory Technique.
- (b) Meat and Milk Inspection.
- (c) Animal Husbandry (Hygiene).

Candidates shall be examined in each of the above subjects and the examination in each subject shall consist of written, practical and oral parts.

20. No candidate shall be admitted to the Final Examination unless he has passed the B.V.Sc. Preliminary, Intermediate Part I and Intermediate Part II Examinations and has also obtained the Diploma in Veterinary Science awarded to the students of the Veterinary College by the Government of Madras or a Diploma awarded by any other recognised body and accepted by the Syndicate as equivalent thereto and has pursued a course of study in the prescribed subjects.

**Admission
to Final
Examination.**

21. Candidates for the examination shall be declared to have passed the examination if they obtain in each

subject not less than one half of the marks in the written part and not less than one half of the marks in the practical and oral parts taken together. All other candidates shall be deemed to have failed in the examination.

22. Candidates who pass the whole examination at their first appearance shall be arranged in two classes, the first consisting of those who have obtained not less than 75 per cent. of the total marks and the second consisting of all others. They shall be arranged in either class in the order of their total marks.

Classification of successful candidates.

23. Candidates who fail in the examination but obtain the prescribed minimum marks for a pass in any subject shall be exempted from re-examination in that subject.

24. Candidates who complete the examination by passing subject by subject shall be placed in a separate group in the second class.

CHAPTER LXVIII.

Degree of Bachelor of Science in Technology [B.Sc. (Tech.)]

**Admission to
B.Sc. (Tech.)
Examination
—Conditions
of.**

1. Candidates for admission to the examination for the Degree of Bachelor of Science in Technology shall be required to have passed the B.A. or B.Sc. Degree Examination of this University with Chemistry as the main subject, and Physics as subsidiary for candidates offering subjects (a), (b), (c), (d), (f) or (g) and Botany as subsidiary for candidates offering subject (e) or a Degree of some other University accepted as equivalent thereto, and to have subsequently undergone the prescribed course of study, in the University College of Technology, for a period of not less than two academic years or six terms.

**Course of
Study.**

2. The course shall extend over a period of two academic years and shall be in any one of the following subjects or such other subjects as may be included from time to time :—

- (a) Chemical Technology.
- (b) Textile Chemistry.
- (c) Textile Technology.
- (d) Leather Technology.
- (e) Pharmaceuticals and Fine Chemicals.
- (f) Electro-Chemistry.
- (g) Industrial Fermentation.

3. Every candidate appearing for the examination shall produce certificates—

**Certificates of
attendance,
etc.**

- (a) of having attended at least 80 per cent. of the lectures and practical classes ;
- (b) of having satisfied a test conducted by the Department ; and
- (c) that his progress and conduct have been satisfactory.

4. The examination for the Degree shall be both written and practical. Every candidate shall pass a test in German, which shall consist of a translation paper of two hours' duration. This paper shall be the same as the one set for candidates for the University Diploma in German with a passage for translation from Scientific German added for candidates for the B.Sc. (Tech.).

The scheme of examination for (a) Chemical Technology, and (b) Textile Chemistry shall be as follows:—

PART I.

(a) CHEMICAL TECHNOLOGY.

| | | | Hours. | Marks. |
|---|--------|-----------|---------------|--------|
| * (1) German | ... .. | 1 paper. | 2 | 50 |
| (2) Mathematics | ... .. | 1 paper. | 3 | 50 |
| * (3) General Chemical Technology I. | | 1 paper. | 3 | 100 |
| (4) General Engineering including Strength and Elasticity of Materials, Applied Heat and Mechanics, Theory of Fluids and Applied Electricity. | | 2 papers. | 3 hours each. | 200 |

Practical Examination—

| | | | |
|--------------------------------------|--------|---|-----|
| * Chemistry | ... .. | 6 | 175 |
| Chemistry Records | ... .. |  | 25 |
| Engineering—*Elementary Drawing | ... .. | 3 | 100 |
| Electrical, Mechanical and Workshop. | ... .. | 6 | 150 |
| Engineering Records. | ... .. |  | 50 |

* Common papers.

(b) TEXTILE CHEMISTRY.

| | | Hours. | Marks. |
|---|-----------------|--------|--------|
| * (1) German | 1 paper. | 2 | 50 |
| (2) General Engineering. | 1 paper. | 3 | 100 |
| * (3) General Chemical Technology I. | 1 paper. | 3 | 100 |
| Practical Examination— | | | |
| * Chemistry | 6 | 175 | |
| Chemistry Records | ... .. | 25 | |
| Engineering—*Elementary Drawing. | 3 | 100 | |
| Electrical, Mechanical and Workshop. | 6 | 150 | |
| Engineering Records. | ... | 50 | |

PART II.

(a) CHEMICAL TECHNOLOGY.

| | | | |
|---|-------------|-----|-----|
| (1) Chemical Engineering. | 3 papers. | 3 | 300 |
| | hours each. | | |
| * (2) General Chemical Tech- nology II. | 1 paper. | 3 | 100 |
| * (3) Industrial Organisation. | 1 paper. | 2 | 50 |
| (4) Design of Chemical Plant (Home paper). | ... | ... | 100 |

Practical Examination—

| | | | |
|---|----------------|--|-----|
| Chemical Engineering | 3 days. | | |
| General Chemical Technology | 2 days. | | |
| Records—30 per cent. of the total marks. | | | 450 |
| Advanced Drawing | 3 | | 100 |

(b) TEXTILE CHEMISTRY.

| | | | |
|--|----------|---|-----|
| * (1) General Chemical Technology II. | 1 paper. | 3 | 100 |
| (2) Chemistry of Textile fibres and dyeing. | 1 paper. | 3 | 100 |

* Common papers.

| | | Hours. | Marks. |
|------|--|--------|--------|
| (3) | Technology of Dyeing 1 paper. and Printing. | 3 | 100 |
| (4) | Technology of bleach- ing, mercerising and 1 paper. finishing. | 3 | 100 |
| (5) | Chemistry of Inter- 1 paper. mediates and dyes. | 3 | 100 |
| *(6) | Industrial Organi- 1 paper. sation. | 2 | 50 |

Practical Examination—

| | | |
|---|--------|-----|
| Dyestuffs, Intermediates and General Chemical Technology. | 3 days | |
| Dyehouse Practice ... | 3 days | 550 |
| Records—20 per cent. of the total marks. | | |

[Scheme of examination for the other subjects—

- (c) Textile Technology.
- (d) Leather Technology.
- (e) Pharmaceuticals and Fine Chemicals.
- (f) Electro-Chemistry and
- (g) Industrial Fermentation,

will be prescribed later.]

Each candidate shall submit his laboratory note-books containing the records of practical work performed during the period of his study countersigned by the Professor or Head of the Department on the first day of the practical examination to the examiners concerned.

5. A candidate may present himself for Part I of the examination at the end of the first year, or may take Parts I and II together at the end of the second year.

* Common papers.

6. A candidate shall be declared to have passed the B.Sc. (Tech.) Examination if he obtains not less than 40 per cent. in each of the papers for each part of the examination (written and practical) and not less than 50 per cent. in the aggregate of each part. A candidate who passes in either of the Parts at one appearance may present himself for the examination in the remaining Part at the next examination after putting in additional attendance at an institution, for such period, not exceeding one academic year, as may be determined in each case.

7. Candidates who pass Parts I and II of the examination on the first occasion of appearing therefor shall be ranked in the order of proficiency as determined by the total marks obtained by each in both parts, and shall be arranged in two classes, the first consisting of those who have obtained not less than two-thirds (66 per cent.) of the aggregate marks, and the second consisting of all others. Those who pass the examination at subsequent appearances will be placed in the second class.

8. Every candidate after passing the examination shall put in a practical course of not less than three months in an approved institution before supplicating for the Degree of B.Sc. (Tech.)

CHAPTER LXIX.

Degree of Bachelor of Commerce (B. Com.)

**Admission to
B. Com. Degree
—conditions.**

1. Candidates for the Degree of Bachelor of Commerce (B. Com.) shall be required—

- (1) to have passed the Intermediate Examination of this University or an examination of some other University recognised by the Syndicate as equivalent thereto; and
- (2) to have undergone subsequently a prescribed course of study extending over a period of not less than two academic years in a college recognised by or affiliated to the University in Commerce.

**Course of
Study.**

2. The course of study shall comprise instruction in the following subjects according to syllabuses and text-books to be prescribed from time to time:—

PART I.

The course shall last for a period of one academic year.

English [Same as B. Sc. (Pass) Degree—Part I—English].

Precis Writing and Business Correspondence.

PART II.

A Second Language.

The course shall last for a period of one academic year and shall comprise the study of any one of the following languages, at the option of the candidate:—

| | | |
|--------------------|-----------|-----------|
| (1) <i>Foreign</i> | French | German |
| | Tamil | Oriya |
| | Telugu | Hindi |
| (2) <i>Indian</i> | Kannada | Bengali |
| | Malayalam | Burmese |
| | Urdu | Sinhalese |
| | Marathi | |

(Note: The language taken shall not be the same as that taken for the Intermediate Examination.)

The course shall be (1) Translation from the selected language into English and *vice versa*, and (2) Composition

which shall be in the nature of short letters dealing with Commercial Correspondence.

(Note: No text-books will be prescribed).

PART III.

The course shall last for a period of two academic years, and shall comprise the study of:—

1. * Economics—General.
2. Banking, Theory and Practice.
3. Mercantile Law.
4. Business Organisation and Commercial Geography.
5. Accountancy.
6. Auditing.
7. Any one of the following subjects:—
 - (a) Transport.
 - (b) Insurance.
 - (c) Co-operation.
 - (d) Statistical Methods and their application to Commerce.

(Note: For syllabuses *vide* Appendix XVII.)

3. The examination shall be in three Parts, Part I, **Examination.** Part II and Part III. Candidates may take Part I of the examination at the end of the first year of the course and Parts II and III at the end of the second year.

Scheme of Examination. 4. The scheme of examination shall be as follows:—

PART I.

| | Hours. | Marks. |
|--|--------|--------|
| 1. † English—Prose ... | 3 | 100 |
| 2. † English—Composition, ... | 3 | 100 |
| 3. Precise Writing and Business Correspondence ... | 2 | 50 |
| Total ... | | 250 |

[* In common with B.A., Part III—Groups (iv-a), (iv-b), (iv-c) and (iv-d).]

(† The papers in English shall be the same as for Part I—English—of the B.Sc. (Pass) Degree Examination.)

PART II.

A Second Language.

| | | |
|---------------------------------|---|-----|
| Composition and Translation ... | 3 | 100 |
|---------------------------------|---|-----|

PART III.

| | | |
|--|---|-----|
| 1. ‡ Economics—General ... | 3 | 100 |
| 2. Banking, Theory and Practice ... | 3 | 100 |
| 3. Mercantile Law ... | 3 | 100 |
| 4. Business Organisation and Com- mercial Geography ... | 3 | 100 |
| 5. Accountancy ... | 3 | 100 |
| 6. Auditing ... | 3 | 100 |
| 7. Optional Subject ... | 3 | 100 |

Total 700

5. A candidate shall be declared to have passed Part I of the examination if he obtains not less than 35 per cent. of the total marks in English, and not less than 35 per cent. of the marks in the remaining subject. A candidate shall be declared to have passed Part II of the examination if he obtains not less than 35 per cent. of the marks in the selected language in Part II. A candidate shall be declared to have passed Part III if he obtains not less than 30 per cent. of the marks in each of the subjects under Part III and not less than 35 per cent. of the total marks in that Part.

**Marks required
for a pass in
the several
Parts to
qualify for the
Degree.**

**Conditions of
eligibility for
the Degree.**

6. No candidate shall be eligible for the Degree of Bachelor of Commerce until he has completed the course of study prescribed and passed the examination in all the Parts specified in Regulations 2 and 5 *supra*.

7. There shall be separate lists of the successful candidates in each Part. Candidates obtaining not less than 60 per cent. of the total marks in Part I or Part II shall be declared to have passed that Part with distinction.

(‡ The question paper shall be the same as for B.A., Part III—Groups (iv-a), (iv-b), (iv-c) and (iv-d), "Economics—General.")

Successful candidates who obtain not less than 60 per cent. of the marks in Part III shall be placed in the first class. Successful candidates who obtain less than 60 per cent. and not less than 50 per cent. of the marks shall be placed in the second class. All the other successful candidates obtaining less than 50 per cent. of the marks shall be placed in the third class.

8. A candidate for the B. Com. Degree who has already qualified for the Degree of Bachelor of Arts (Pass or Honours) or Bachelor of Science (Pass or Honours) of this University, with English under Part I, shall have the option of being exempted from examination in the English portion of Part I.

A candidate who has already qualified for the B.A. Degree of this University in Group (iv-a), (iv-b), (iv-c) or (iv-d) or for the B.A. (Honours) Degree of this University in Branch III, IV, V or XIII shall have the option of being exempted from examination in "Economics—General" under Part III.

Such a candidate shall, however, pay the prescribed fee for the Part or Parts of the examination, as the case may be.

The candidates who avail themselves of the above exemption or exemptions shall not be eligible for any prize or medal awarded by the University, and successful candidates under this category shall be placed in a separate list.

9. Candidates who fail in any Part or Parts of the examination shall be permitted to appear in such Part or Parts at any subsequent examination on payment of the prescribed fees and need not produce any additional certificate of attendance and progress.

Successful candidates under the above Regulation shall be placed in a separate list. They shall not be eligible for prizes or medals awarded by the University.

CHAPTER LXX.

Oriental Title Examinations.*

1. The following shall be the Titles awarded:—

(i) Siromani (added to Mimamsa, Vedanta, Nyaya, Vyakarana, Sahitya, Ayurveda and Jyotisha).

(ii) Vidvan.

(iii) (a) Afzal-ul-Ulama.

(b) Munshi-i-Fazil.

(c) Adib-i-Fazil.

Titles. (d) Tabib-i-Kamil.

(e) Afzal-ul-Atibba.

(iv) (a) Malpan.

(b) Soppar.

Subjects. 2. (i) Candidates for Siromani shall take Sanskrit alone.

(ii) Candidates for Vidvan shall take—

(a) Sanskrit and one of the following languages:—

Tamil, Telugu, Kannada, Malayalam, Marathi, Oriya, Hindi, selected at the option of the candidate; or

(b) One of the following languages as the main language with Sanskrit as a subsidiary language:—
Tamil, Telugu, Kannada, Malayalam, Marathi, Oriya, Hindi;

(c) *

or

(d) One of the following languages:—Tamil, Telugu, Kannada, Malayalam.

(iii) (a) Candidates for Afzal-ul-Ulama shall take Arabic alone; or

(b) Candidates for Munshi-i-Fazil shall take Persian as the main language with Urdu as a subsidiary language; or

(c) Candidates for Adib-i-Fazil shall take Urdu as the main language with Persian, Tamil or Malayalam as a subsidiary language; or

(d) Candidates for Tabib-i-Kamil shall take Tibb-i-Unani in Persian as the main language with Urdu as a subsidiary language; or

(e) Candidates for Afzal-ul-Atibba shall take Tibb-i-Unani in Arabic as the main language with Urdu as a subsidiary language.

(iv) (a) Candidates for Malpan shall take Syriac; or

(b) Candidates for Soppar shall take Syriac as the main language with Hebrew as a subsidiary language.

3. Candidates for the Oriental Title Examination shall have passed the Matriculation Examination of the University or an examination accepted by the Syndicate as equivalent thereto, or the Entrance Test prescribed, and shall have thereafter pursued a course of study for four academic years or twelve terms in a Constituent or an Affiliated College or an approved Oriental Institution.

4. The course of studies for the Oriental Title Examination— Examination shall comprise a Preliminary and a Final Part.
Preliminary and Final.

5. The course for the Preliminary Part of the examination shall extend over a period of two academic years or six terms and shall be as follows:—
Duration and Course of Studies.

1. *Siromani*.—There shall be two divisions in the Preliminary Part, 1. General, and 2. Special.

1. The general division shall consist of (a) prescribed books relating to the elements of Tarka, Mimamsa and Vyakarana, and (b) prescribed text-books chosen from among the Mantras, Brahmanas, Upanishads, the Grihya and Dharma Sutras and the Smritis.

2. The course in the special division shall consist of one of the following branches of study taken by the candidate at his option:—

(i) *Mimamsa Group*.—Prescribed text-books relating to Purvamimamsa, Veda, Sruta and Dharmasastra.

(ii) *Vedanta Group*.—Prescribed text-books relating to the *Bhashya Prasthanā* of one of the three South Indian Schools of Vedānta, viz., Advaita, Viśiṣṭadvaita and Dvaita.

(iii) *Nyaya Group*.—Prescribed text-books relating to the Nyaya and Vaiśeṣika Darsanas including select portions of Purvavāda.

(iv) *Vyakarana Group*.—Prescribed text-books relating to advanced Vyākaraṇa, including select portions of standard commentaries on the *Siddhantakaumudī*.

(v) *Sahitya Group*.—Prescribed Kavyas and Natakas and a simple work in Poetics.

(vi) *Jyotisha Group*.—Prescribed text-books in Jyotiṣha and Ganita.

(vii) *Ayurveda Group*.—Prescribed text-books in Ayurveda and a certificate of having attended for one year the practice of a Hospital or Dispensary within the jurisdiction of this University and approved beforehand by the Syndicate, under a recognised Ayurvedic Physician.

II. *Vidvan*.—(a) The course in Sanskrit shall consist of prescribed Kavyas, Natakas, a simple work in Poetics, and a prescribed portion in Grammar.

The course in the selected language shall be

- (1) prescribed text-books in Poetry and Prose; and
- (2) Composition in the selected language.

(b) The course in the selected language shall consist of (1) prescribed text-books in Poetry and Prose; (2) prescribed text-books relating to Grammar; and (3) Composition.

The course in Sanskrit shall consist of (1) prescribed text-books in simple Poetry and Prose; (2) Elementary Grammar taught in relation to these text-books; and (3) Translation from Sanskrit into the selected language.

(c) * * * * *

(d) The course shall consist of (1) prescribed text-books in Poetry and Prose; (2) prescribed text-books

relating to Grammar; (3) Composition in the selected language; and (4) History of South India.

III. (a) *Afzal-ul-Ulama*.—The course shall consist of—

- (1) Tafsir, Hadith and Usul-i-Hadith.
- (2) Fiqh, 'Aqa'id and Mantiq.
- (3) Prose and Poetry text-books.
- (4) History of Arabic Language and Literature.
- (5) Translation from Arabic into Urdu, Tamil or Malayalam and *vice versa*.
- (6) Grammar, Rhetoric and Prosody.

(b) *Munshi-i-Fazil*.—The course shall consist of—

- (1) Persian Prose text-books.
- (2) Persian Poetry text-books.
- (3) Grammar, Rhetoric and Prosody.
- (4) Islamic History.
- (5) Prescribed text-books in Urdu.
- (6) Translation from Persian into Urdu and *vice versa*.

(c) *Adib-i-Fazil*.—The course shall consist of—

- (1) Urdu Prose text-books.
- (2) Urdu Poetry text-books.
- (3) Grammar, Rhetoric and Prosody.
- (4) Islamic History.
- (5) Prescribed text-books in Persian.
- (6) History of Urdu Language and Literature.

(d) *Tabib-i-Kamil*.—The course shall consist of—

- (1) Kulliyath.
- (2) Tashrihul A'da.

- (3) Kimiyah and Manafi'ul-A'da.
- (4) 'Ilmul Adwiyat was Saidalah.
- (5) Tarikhi Tib.
- (6) Hifzani Sihat.

Candidates shall produce a certificate of having attended for one year the practice of a Unani Hospital or Dispensary within the jurisdiction of this University and approved beforehand by the Syndicate, under a recognised Unani Physician.

(e) *Afzal-ul-Atibba*.—The course shall consist of—

- (1) Kulliyath.
- (2) Tashrihul A'da.
- (3) Kimiyah and Manafi'ul-A'da.
- (4) 'Ilmul Adwiyah was Saidalah.
- (5) 'Ilmust Sihhat.
- (6) Tarikhi Tib.

Candidates shall produce a certificate of having attended for one year the practice of a Unani Hospital or Dispensary within the jurisdiction of this University and approved beforehand by the Syndicate, under a recognised Unani Physician.

IV. (a) *Malpan*.—The course shall consist of—

- (1) Prose text-books.
- (2) Poetry text-books.
- (3) History of the Syriac Language and Literature.
- (4) Translation from Syriac into English, Tamil or Malayalam, and from English, Tamil or Malayalam into Syriac.
- (5) Composition in Syriac.

(b) *Soppar*.—The course in Syriac shall consist of—

- (1) Syriac Prose.

- (2) Syriac Poetry.
- (3) Translation from Syriac into English, Tamil or Malayalam, and from English, Tamil or Malayalam into Syriac.
- (4) Composition in Syriac.

The course in Hebrew shall consist of—

- (1) Hebrew Prose.
- (2) Hebrew Poetry.

The examination papers on the text-books may contain also questions on Grammar.

**Scheme of Examination—
Preliminary part.**

6. The scheme of examination for the Preliminary Part shall be as follows:—

I. *Siromani*—

| | Hours. | Marks. |
|--|--------|--------|
| (1) Prescribed text-books—General I... | 3 | 100 |
| (2) Do. do. II... | 3 | 100 |
| (3) Do. do. III... | 3 | 100 |
| (4) Do. Special I... | 3 | 100 |
| (5) Do. do. II... | 3 | 100 |
| (6) Do. do. III... | 3 | 100 |
| Total | | 600 |

II. *Vidvan (a)*—

| | | |
|--|---|-----|
| (1) Prescribed text-books in Sanskrit I | 3 | 100 |
| (2) Do. II | 3 | 100 |
| (3) Do. III | 3 | 100 |
| (4) Prescribed text-books in the selected Language I | | 100 |
| (5) Prescribed text-books in the selected Language II | | 100 |
| (6) Composition in the selected Language | | 100 |
| Total | | 600 |

Hours. Marks.

Vidvan (b)---

| | | |
|--|---|-----|
| (1) Prescribed text-books in the Main Language I | 3 | 100 |
| (2) Prescribed text-books in the Main Language II | 3 | 100 |
| (3) Composition in the Main Language | 3 | 100 |
| (4) Grammar | 3 | 100 |
| (5) Prosody and Poetics | 3 | 100 |
| (6) Sanskrit | 3 | 100 |
| Total ... | | 600 |

*Vidvan (c)---**Vidvan (d)---*

| | | |
|------------------------------------|---|-----|
| (1) Prescribed text-books I | 3 | 100 |
| (2) Do. II | 3 | 100 |
| (3) Composition | 3 | 100 |
| (4) Grammar I | 3 | 100 |
| (5) Do. II | 3 | 100 |
| (6) History of South India | 3 | 100 |
| Total ... | | 600 |

III. (a) *Afzal-ul-Ulama---*

| | | | |
|----------|---|---|-----|
| (i) { | (1) Tafsir, Hadith and Usul-i-Hadith ... | 3 | 100 |
| | (2) Fiqh, 'Aqa'id and Mantiq ... | 3 | 100 |
| | (3) Prose and Poetry text-books. ... | 3 | 100 |
| (ii) { | (4) History of Arabic Language and Literature. | 3 | 100 |
| | (5) Translation from Arabic into Urdu, Tamil or Malayalam and <i>vice versa</i> ... | 3 | 100 |
| | (6) Grammar, Rhetoric and Prosody. ... | 3 | 100 |
| Total .. | | | 600 |

| | | Hours. | Marks |
|----------------------------|---|--------|-------|
| <i>(b) Munshi-i-Fazil—</i> | | | |
| (i) | { (1) Persian Prose text-books | 3 | 100 |
| | (2) Persian Poetry text-books | 3 | 100 |
| | { (3) Grammar, Rhetoric and Prosody ... | 3 | 100 |
| | (4) Islamic History, ... | 3 | 100 |
| (ii) | { (5) Prescribed text-books in Urdu ... | | 100 |
| | { (6) Translation from Persian into Urdu and vice versa ... | 3 | 100 |
| Total | | ... | 600 |

(c) Adib-i-Fazil—

| | | | |
|-------|--|-----|-----|
| (i) | { (1) Urdu Prose text-books | 3 | 100 |
| | (2) Urdu Poetry text-books | 3 | 100 |
| | { (3) Grammar, Rhetoric and Prosody ... | 3 | 100 |
| | (4) Islamic History ... | 3 | 100 |
| (ii) | { (5) Prescribed text-books in Persian, Tamil or Malayalam ... | 3 | 100 |
| | { (6) History of Urdu Language and Literature... | 3 | 100 |
| Total | | ... | 600 |

(d) Tabib-i-Kamil—

| | | | |
|-------|--------------------------------------|---|-----|
| (i) | { (1) Kulliyath ... | 3 | 100 |
| | (2) Tashrihul A'da ... | 3 | 100 |
| | { (3) Kimiyah and Manafi'ul-A'da ... | 3 | 100 |
| | (4) 'Ilmul Adwiyat was Saidalah ... | 3 | 100 |
| (ii) | { (5) Tarikhi Tib | 3 | 100 |
| | { (6) Hifzani Sihat | 3 | 100 |
| Total | | | 600 |

| | | Hours. | Marks |
|------------------------------|-------------------------------------|--------|-------|
| (e) <i>Afzal-ul-Atibba</i> — | | | |
| (i) | (1) Kulliyath ... | 3 | 100 |
| | (2) Tashrihul A'da ... | 3 | 100 |
| | (3) Kimiyah and Manafi'ul-A'da ... | 3 | 100 |
| | (4) 'Ilmul Adwiyat was Saidalah ... | 3 | 100 |
| (ii) | (5) 'Ilmust Sihhat ... | 3 | 100 |
| | (6) Tarikhi Tib ... | 3 | 100 |
| Total ... | | | 600 |

IV. (a) *Malpan*—

| | | |
|--|---|-----|
| (1) Prose text-books—Syriac ... | 3 | 100 |
| (2) Poetry text-books—Syriac ... | 3 | 100 |
| (3) History of the Syriac Language and Literature ... | 3 | 100 |
| (4) Translation from Syriac into Tamil or Malayalam or English ... | 3 | 100 |
| (5) Translation from English, Tamil or Malayalam into Syriac ... | 3 | 100 |
| (6) Composition in Syriac ... | 3 | 100 |
| Total ... | | 600 |

(b) *Soppar*—

| | | |
|--|---|-----|
| (1) Syriac Prose ... | 3 | 100 |
| (2) Syriac Poetry ... | 3 | 100 |
| (3) Translation from Syriac into Tamil or Malayalam or English ... | 3 | 100 |
| (4) Translation from English, Tamil or Malayalam into Syriac ... | 3 | 100 |
| (5) Composition in Syriac ... | 3 | 100 |
| (6) Hebrew Prose and Poetry ... | 3 | 100 |
| Total ... | | 600 |

7. A candidate shall be declared to have passed the Preliminary Examination if he obtains **Marks qualifying for a pass.** not less than 35 per cent. of the total marks and not less than 30 per cent. of the marks in each division of the examination.

The Divisions shall be as follows:—

I. *Siromani*—

(1) General part ; (2) Special part.

II. *Vidvan*—

(a) (1) Sanskrit ; (2) Selected Language.

(b) (1) First three papers; (2) last three papers
(with a minimum of 25 per cent. for Sanskrit).

(c)

(d) (1) Papers 1, 2 and 6 ; (2) papers 3, 4 and 5.

III. (a) *Afzal-ul-Ulama*—

(1) first three papers ;

(2) last three papers.

(b) *Munshi-i-Fazil*—

(1) first four papers ;

(2) last two papers.

(c) *Adib-i-Fazil*—

(1) first three papers ;

(2) last three papers.

(d) *Tabib-i-Kamil*—

(1) first four papers ;

(2) last two papers.

(e) *Afzal-ul-Atibba*—

(1) first four papers ;

(2) last two papers.

IV. (a) *Malpan*—

(1) first three papers ;

(2) last three papers.

(b) *Soppar*—

(1) Papers 1, 2 and 6 (with a minimum of 25 per cent. for Hebrew) ;

(2) papers 3, 4 and 5.

**Classification
of successful
candidates.**

8. Successful candidates in the Preliminary Examination shall be arranged in three classes:—

The first consisting of those who obtain not less than 60 per cent., the second, of those who obtain less than 60 per cent. and not less than 50 per cent., and the third, of those who obtain less than 50 per cent. of the total marks.

9. For the purpose of enabling him to appear for the Final Part under the conditions prescribed, a candidate who has passed Group D under Part III of the Intermediate Examination shall be considered to have passed the Preliminary Part of the Oriental Title Examination in the language or languages in which he has already passed in Group D.

10. The course of studies and scheme of examination and marks for the Final Part shall be the same as for Part II of the B.O.L. (Pass) Degree, excluding the provision for General Indian History.

11. No candidate shall be admitted to the Final Part of the Examination unless he has passed the Preliminary Part and has thereafter undergone the prescribed course for two academic years or six terms.

**Passing in
Preliminary
before Final.**

Such candidates shall take for the Final Part of the Oriental Title course the same language or languages that were taken in the Preliminary Part.

12. All the papers for the Oriental Title Examination (Preliminary and Final) shall be set and answered in the respective languages to which they relate, provided that the papers in Sanskrit as the subsidiary language for Vidvan (b) shall be set in Sanskrit and answered in the main language.

Languages in which the question papers will be set.

Oriental Title holders qualifying for another Title or for another subject in the same Title.

13. A candidate who has qualified for a Title in Oriental Learning of this University shall be permitted to appear for the Examination for a different Title or for a different subject in the same Title provided that the Syndicate is satisfied that he has undergone the prescribed course of study for the selected new Title or for the selected new subject in the same Title by attending an Oriental College for the prescribed period of not less than two academic years or six terms for the Preliminary and for the same period for the Final Division of the course after passing the Preliminary Division.

A candidate who has qualified for any of the Titles specified below shall be exempted from a part of the course of studies and examination, and shall pursue a course of study for one academic year or three terms for the Preliminary, and for the same period for the Final Division, after passing the Preliminary Division:—

| Subject which the candidate has passed. | Subject which the candidate chooses. | Subject exempted. |
|---|---|--|
| I. (a) Any one of the subjects for the Siromani | Any other subject for the Siromani | General Part in the Siromani. |
| (b) One of the South Indian Schools of Vedanta for the Siromani | Another South Indian School of Vedanta for the Siromani | General Part in the Siromani, and also the subjects in B.O.L. Part II Gr. I Special (b) (2) for the Final. |
| II. Any subject for the Siromani | Vidvan (a) or (b) | Sanskrit Part. |
| III. Vidvan (a) | Vidvan (b) | Sanskrit Part. |
| IV. Vidvan (b) or (d) | Vidvan (a) | Selected Language Part. |
| V. Munshi-i-Fazil | Adib-i-Fazil | Persian as subsidiary. |
| VI. Adib-i-Fazil | Munshi-i-Fazil | Urdu as subsidiary. |

CHAPTER LXXI.

* Degree of Bachelor of Oriental Learning (Pass).

1. Candidates for the B.O.L. Degree Examination shall be required to have passed the Intermediate Examination in Arts and Science of this University with Group D, or an examination accepted by the Syndicate as equivalent thereto, and to have subsequently undergone a prescribed course of study in a Constituent or an Affiliated College for a period of not less than two academic years or six terms.

Conditions of admission.

2. The course for the B.O.L. Degree shall comprise the following subjects according to syllabuses to be prescribed from time to time:—

Course of study.

Part I—English.—To be studied for one academic year or three terms.

Part II—A. General Indian History, and

B.

One of the following Groups to be studied for a period of two academic years or six terms:—

Group I—Sanskrit with one of the following as an optional subject:—

(a) Mimamsa, (b) Vedanta, (c) Nyāya, (d) Vyākaraṇa, (e) Sahitya, (f) Jyotiṣa, or (g) Ayurveda.

Group II—(a) Sanskrit and one of the following languages at the option of the candidates:—Tamil, Telugu, Kannada, Malayalam, Marathi, Oriya and Hindi.

or

(b) One of the following languages as the main language with Sanskrit as a subsidiary language:—Tamil, Telugu, Kannada, Malayalam, Marathi, Oriya and Hindi.

(c) * * * *

or

(d) One of the following languages:—Tamil, Telugu, Kannada and Malayalam.

* For the list of subjects under B.O.L. Part III (Old Regulations) and syllabuses therefor, please see **Appendix XIX-A.**

Group III—(a) Arabic; (b) Persian and Urdu; (c) Urdu and one of the following languages selected at the option of the candidate:—Persian, Tamil, Malayalam; (d) Tibb-i-Unani in Persian and Urdu; or (e) Tibb-i-Unani in Arabic and Urdu.

Group IV—(a) Syriac, or (b) Syriac as the main language with Hebrew as a subsidiary language.

Part I—English—(1) The study in detail of certain prescribed text-books, and (2) the study of certain books prescribed for perusal.

Part II—A. General Indian History.

B.

Group I—

General—

(1) History of Sanskrit Language and Literature.

(2) Essay on subjects connected with the special subject or general subject.

Special—

(a) (1) Prescribed text-books relating to Purva-mimamsa.

(2) Application of Mimamsa to Vedic Exegesis and to the proper comprehension of the social and legal aspects of the Dharmasastras.

(b) (1) Prescribed text-books relating to the *Veda Prasthanas* of one of the three South Indian Schools of Vedanta, viz., Advaita, Visishtadvaita and Dvaita.

(2) Prescribed text-books relating to Yoga, Sankhya and the elements of the three South Indian Schools of Vedanta.

(c) Prescribed text-books relating to Nyaya and Vaiseshika Darśanas including select portions of *Uttaravada* and *Sabdabodha* works in Nyaya and Mimamsa.

(d) Prescribed text-books relating to advanced Vyakarana, including *Sabdabodha* works in Vyakarana and

select portions of the *Mahabhashya* and standard commentaries on the *Siddhantakamudi*.

(e) (1) Prescribed text-books relating to Grammar, Prosody and Poetics.

(2) Prescribed text-books of an advanced character, relating to Alamkara Sastra.

(f) Prescribed text-books of an advanced character, in Jyotisha and Ganita.

(g) Prescribed text-books of an advanced character in Ayurveda and a certificate of having attended for two years the practice of a hospital or dispensary within the jurisdiction of this University and approved beforehand by the Syndicate, under a recognized Ayurvedic physician.

Group II—

(a) Sanskrit—(1) History of Sanskrit Language and Literature; and (2) Prescribed text-books relating to Grammar, Prosody and Poetics.

Selected Language—(1) Prescribed text-books and (2) Prescribed text-books relating to Grammar, Prosody and Poetics.

(b) Selected Language—(1) Prescribed text-books; (2) Prescribed text-books relating to Advanced Grammar, Prosody and Poetics; and (3) History of the Language and Literature.

Sanskrit—(1) Prescribed text-books in Kavyas and Natakas; and (2) Elementary Prosody and Poetics taught in relation to the text-books under (1).

(c) * * * *

(d) (1) Prescribed text-books; (2) Prescribed text-books relating to Advanced Grammar, Prosody and Poetics; (3) History of the Language and Literature; and (4) Inscriptions.

Group III—

(a) (1) Tafsir, Hadith and 'Ilmul Hadith.

(2) Fiqh, Usul-ul-Fiqh and 'Ilmul Kalam.

- (3) Prose and Poetry text-books.
- (4) Islamic History.
- (5) Falsafah and Balaghat.
- (6) History of Arabic Language and Literature.

(b) *Part I—Persian—*

- (1) Persian Prose text-books.
- (2) Persian Poetry text-books.
- (3) History of Persian Language and Literature.
- (4) Islamic History with particular reference to Persia.

Part II—Urdu—

- (5) Urdu text-books.
- (6) Translation from Persian into Urdu and vice versa.

(c) *Part I—Urdu—*

- (1) Urdu Prose Text-books.
- (2) Urdu Poetry Text-books.
- (3) Islamic History.
- (4) History of Urdu Language and Literature.
- (5) Grammar, Rhetoric and Prosody.
- (6) One Author.

Part II—Persian, Tamil or Malayalam—

- (7) Prescribed text-books in Persian or Tamil or Malayalam.

(d) Prescribed books of an advanced character in Tibb-i-Unani in Persian and Urdu and a certificate of having attended for two years the practice of a Unani Hospital or Dispensary within the jurisdiction of this

University and approved beforehand by the Syndicate, under a recognised Unani Physician.

(e) Prescribed books of an advanced character in Tibb-i-Unani in Arabic and Urdu and a certificate of having attended for two years the practice of a Unani Hospital or Dispensary within the jurisdiction of this University and approved beforehand by the Syndicate, under a recognised Unani Physician.

The prescribed text-books shall comprise the following subjects:—

- (1) Kulliyath and Kimiyah.
- (2) Tashrihul A'za wa Manafi'ul A'za.
- (3) 'Ilmul Adwiyah and 'Ilmus Saidalah.
- (4) Tarikhi Tib.
- (5) 'Ilmul Tashkhis.
- (6) 'Ilmul Amirad wal Jarathim.
- (7) Tibb-i-Qanuni.
- (8) Mu'alijat.
- (9) 'Ilmul Qabilah.

Group IV--

- (a) (1) Prescribed text-books in Prose.
- (2) Prescribed text-books in Poetry.
- (3) History of Syriac Language and Literature.
- (4) Translation from Syriac into English, Tamil or Malayalam and from English, Tamil or Malayalam into Syriac.
- (5) Composition in Syriac.

The examination papers on the text-books may also contain questions on Grammar.

(b) Syriac as the Main subject shall include—

- (1) Syriac Prose.
- (2) Syriac Poetry.
- (3) Translation from Syriac into English,
Tamil or Malayalam, and from English,
Tamil or Malayalam into Syriac.
- (4) Composition in Syriac.

Hebrew as a subsidiary subject shall consist of—

- (1) Hebrew Prose.
- (2) Hebrew Poetry.

The examination papers on the text-books may also contain questions on Grammar.

3. The scheme of examination shall be as follows:—

**Scheme of
Examination.**

** Part I—English.*

| | Hours. | Marks. |
|-------------------------|--------|--------|
| English Prose ... | 3 | 100 |
| English Composition ... | 3 | 100 |
| Total | | 200 |

Part II—The examination shall consist of one paper on † General Indian History and six papers in the particular language or languages selected.

| | Hours. | Marks. |
|---------------------------|--------|--------|
| A. General Indian History | 3 | 100 |

B.

Group I.—There shall in the general part be one paper on the History of Sanskrit Language, one paper on the History of Sanskrit Literature, one paper on Essay,

[† The paper on General Indian History will be common with B. A. Group (iv-a).]

[*NOTE.—These two papers shall be the same as those for the B. A. (Honours) Degree Examination—Part I—Preliminary.]

and in the special part three papers on the prescribed text-books.

| Scheme of examination. | | Hours. | Marks. |
|------------------------|-------------------------------------|--------|--------|
| (1) | History of Sanskrit Language ... | 3 | 100 |
| (2) | History of Sanskrit Literature ... | 3 | 100 |
| (3) | Essay ... | 3 | 100 |
| (4) | Prescribed Text-books—Special I ... | 3 | 100 |
| (5) | Do. do. II ... | 3 | 100 |
| (6) | Do. do. III ... | 3 | 100 |
| Total ... | | | 600 |

Group II (a).—There shall in Sanskrit be two papers on the prescribed text-books, and one paper on the History of Sanskrit Language and Literature. In the selected Language there shall be two papers on the prescribed text-books and one paper on Grammar, Prosody and Poetics.

| Scheme of examination. | | Hours. | Marks. |
|------------------------|--|--------|--------|
| (1) | Prescribed text-books in Sanskrit I. | 3 | 100 |
| (2) | Do. II. | 3 | 100 |
| (3) | History of Sanskrit Language and Literature ... | | 100 |
| (4) | Prescribed text-books in the selected Indian Language I ... | | 100 |
| (5) | Prescribed text-books in the selected Indian Language II ... | 3 | 100 |
| (6) | Grammar, Prosody and Poetics ... | 3 | 100 |
| Total ... | | | 600 |

Group II (b).—There shall in Sanskrit be one paper, and in the selected Language there shall be two papers on the prescribed text-books, one paper on the History of Language and Literature, one paper on Grammar, and one paper on Prosody and Poetics.

| Scheme of examination. | Hours. | Marks |
|--|--------|-------|
| (1) Prescribed text-books in the Language I ... | 3 | 100 |
| (2) Prescribed text-books in the Language II ... | 3 | 100 |
| (3) History of Language and Literature. | 3 | 100 |
| (4) Grammar ... | 3 | 100 |
| (5) Prosody and Poetics ... | 3 | 100 |
| (6) Sanskrit ... | 3 | 100 |
| Total | | 600 |

Group II (c) * * * *

Group II (d).—There shall be two papers on prescribed text-books, two papers on Advanced Grammar, Prosody and Poetics, one paper on the History of Language and Literature and one paper on Inscriptions.

| Scheme of examination. | Hours. | Marks |
|--|--------|-------|
| (1) Prescribed text-books I ... | 3 | 100 |
| (2) Do. II ... | 3 | 100 |
| (3) Advanced Grammar, Prosody and Poetics I ... | 3 | 100 |
| (4) Advanced Grammar, Prosody and Poetics II ... | 3 | 100 |
| (5) History of Language and Literature. | 3 | 100 |
| (6) Inscriptions ... | 3 | 100 |
| Total | | 600 |

Group III.—The scheme of examination shall be as follows:—

| | Hours. | Marks. |
|--|--------|--------|
| (a) (1) Tafsir, Hadith and Ilmul-Hadith ... | 3 | 100 |
| (2) Fiqh, 'Usul 'ul-Fiqh and Ilmul-Kalam ... | 3 | 100 |
| (3) Prose and Poetry text-books ... | 3 | 100 |

| | | Hours. | Marks. |
|--|----------------|--------|------------|
| (4) History of Arabic Language and Literature | ... | 3 | 100 |
| (5) Falsafah and Balaghat | ... | 3 | 100 |
| (6) Islamic History | ... | 3 | 100 |
| Total | ... | | <u>600</u> |
| (b) (1) Persian Prose text-books | ... | 3 | 100 |
| (2) Persian Poetry text-books | ... | 3 | 100 |
| (3) History of Persian Language and Literature | ... | 3 | 100 |
| (4) Islamic History with particular reference to Persia | ... | 3 | 100 |
| (5) Urdu texts | ... | 3 | 100 |
| (6) Translation from Persian into Urdu and <i>vice versa</i> | ... | 3 | 100 |
| Total | ... | | <u>600</u> |
| (c) (1) Urdu Prose text-books | ... | 3 | 100 |
| (2) Urdu Poetry text-books | ... | 3 | 100 |
| (3) Islamic History | ... | 3 | 100 |
| (4) Prescribed text-books in Persian, Tamil or Malayalam | ... | 3 | 100 |
| (5) History of Urdu Language and Literature | ... | 3 | 100 |
| (6) One of the following authors:— | | | |
| 1. Shibli. | 4. Sir Sayyid. | } | 3 100 |
| 2. Hali. | 5. Iqbal. | | |
| 3. Sarshar. | 6. Sharar. | | |
| Total | ... | | <u>600</u> |

| | | Hours. | Marks. |
|-----|--|--------|--------|
| (d) | (1) 'Ilmul Tashkhis ... | 3 | 100 |
| | (2) Mu'alajat—General ... | 3 | 100 |
| | (3) Do. 'Ilmul Jarahat ... | 3 | 100 |
| | (4) Ilmul Amrad wal Jarathim ... | 3 | 100 |
| | (5) Amradi-Niswan wa Sibyan wa 'Ilmul Qabilah ... | 3 | 100 |
| | (6) Tibbi Qanuni wa 'Ilmus Sumum ... | 3 | 100 |
| | Total ... | | 600 |

| | | | |
|-----|---|---|-----|
| (e) | (1) 'Ilmul Tashkhis ... | 3 | 100 |
| | (2) Mu'alajat—General ... | 3 | 100 |
| | (3) Do. 'Ilmul Jarahat ... | 3 | 100 |
| | (4) 'Ilmul Amrad wa 'Ilmul Jarathim. ... | 3 | 100 |
| | (5) 'Ilmul Amrad-al-atfal-wan Niswan wa 'Ilmul Qabilah ... | 3 | 100 |
| | (6) Tibbi Qanuni and 'Ilmul Sumum ... | 3 | 100 |
| | Total ... | | 600 |

Group IV (a).—There shall in Syriac be two papers on prescribed text-books, one paper on the History of the Syriac Language and Literature, two papers on Translation from Syriac into English, Tamil or Malayalam and *vice versa*, and one paper on Composition in Syriac.

| Scheme of examination. | Hours. | Marks. |
|---|--------|--------|
| (1) Prose text-books—Syriac ... | 3 | 100 |
| (2) Poetry text-books—Syriac ... | 3 | 100 |
| (3) History of the Syriac Language and Literature ... | 3 | 100 |
| (4) Translation from Syriac into Tamil or Malayalam or English ... | 3 | 100 |

| | Hours. | Marks. |
|--|--------|--------|
| (5) Translation from English, Tamil or Malayalam into Syriac ... | 3 | 100 |
| (6) Composition in Syriac ... | 3 | 100 |
| Total ... | | 600 |

Group IV (b).—There shall in Syriac be two papers on prescribed text-books, two papers on Translation from Syriac into English, Tamil or Malayalam and *vice versa*, one paper on Composition in Syriac and one paper on prescribed text-books in Hebrew.

| Scheme of examination. | Hours. | Marks. |
|--|--------|--------|
| (1) Syriac Prose ... | 3 | 100 |
| (2) Syriac Poetry .. | | 100 |
| (3) Translation from English, Tamil or Malayalam into Syriac ... | | 100 |
| (4) Translation from Syriac into English, Tamil or Malayalam ... | 3 | 100 |
| (5) Composition in Syriac ... | 3 | 100 |
| (6) Hebrew Prose and Poetry ... | 3 | 100 |
| Total ... | | 600 |

4. No candidate shall be eligible for the Degree of Bachelor of Oriental Learning until he has completed the course of study prescribed and has passed the examination in the subjects prescribed for the course in Regulations 2 and 3 *supra*.

5. A candidate for the B.O.L. Degree Examination may present himself for Part I at the end of the first year of the course and thereafter may at any time at his option present himself for the whole or for either part.

Part I Examination may be taken in first year.

6. A candidate shall be declared to have passed Part I of the examination if he obtains not less than 35 per cent. of the total marks.

Passing minimum.

A candidate shall be declared to have passed Part II of the examination if he obtains not less than 35 per cent. of the total marks and 30 per cent. in each division.

The Divisions shall be as follows:—

In all the Groups, General Indian History shall be a separate division.

Group I—

- (1) General Part ; (2) Special Part.

Group II—

- (a) (1) Sanskrit ; (2) Selected Language.
- (b) (1) First three papers ; (2) last three papers
(with a minimum of 25 per cent. for Sanskrit).
- (c) * * * *
- (d) (1) Text-books and Inscriptions ; (2) Grammar and History of Language and Literature.

Group III—

- (a) Afzal-ul-Ulama—

- (1) First three papers ; (2) last three papers.

**Divisions of
the subjects for
examination.**

- (b) Munshi-i-Fazil—

- (1) First four papers ; (2) last two papers.

- (c) Adib-i-Fazil—

- (1) First three papers ; (2) last three papers
(with 25 per cent. minimum in the fourth paper).

- (d) Tabib-i-Kamil—

- (1) First four papers ; (2) last two papers.

- (e) Afzal-ul-Atibba—

- (1) First four papers ; (2) last two papers.

*Group IV—**(a) Malpan—*

(1) First three papers ; (2) last three papers.

(b) Soppar—

(1) Papers 1, 2 and 6 (with a minimum of 25 per cent. in paper 6) ; (2) papers 3, 4 and 5.

7. There shall be separate lists of successful candidates in each Part. Candidates obtaining not less than 60 per cent. of the total marks in Part I shall be declared to have passed with distinction in that Part.

In Part II, candidates who obtain not less than 60 per cent. of the total marks shall be placed in the first class, those who obtain less than 60 per cent., but not less than 50 per cent. of the total marks shall be placed in the second class and all other successful candidates shall be placed in the third class.

8. A candidate who has qualified for the B.A. or B.Sc. (Pass or Honours), or has passed only Part I of the B.A. or B.Sc. (Pass or Honours), or B.O.L. (Honours) Examination of this University, shall be exempted from the course and examination in Part I of the B.O.L. Degree. He shall be credited with a pass in that Part.

9. All the papers for the B.O.L. Degree Examination under Part II (except the paper on General Indian History) shall be set and answered in the respective languages to which they relate; provided that papers in Sanskrit as a subsidiary language for Group II (b) shall be set in Sanskrit and answered in the respective main language.

10. A candidate who has qualified for the B. O. L. (Pass) Degree Examination of this University shall be permitted to appear for a different Optional Group under Part II of the B.O.L. (Pass) Degree Examination, provided that the Syndicate is satisfied that he has undergone the prescribed course of study for the selected new group of optional

**B.O.L. (Pass)
Degree Holder
qualifying
for another
Optional
Branch.**

**Language in
which question
papers will
be set.**

Exemption.

subjects by attending a Constituent or Affiliated College for a period of not less than one academic year or three terms. He shall be exempted from the course of study and examination under Part I English and in General Indian History under Part II; he shall further be exempted from the course of study and examination in the subjects as defined below:—

| Optional subject which the candidate has passed. | Optional subject which the candidate chooses. | Subject exempted. |
|--|---|---|
| I. (a) Any subject in Group I | Any other subject in Group I | General Part. |
| Exemptions. (b) Any one of the South Indian Schools of Vedanta in Group I | Any other South Indian School of Vedanta in Group I | General Part and also subjects in Gr. I Special (b) (2). |
| II. Any subject in Group I | Group II (a) or (b) | Sanskrit Part. |
| III. Group II (a) | Group II (b) | Sanskrit Part. |
| IV. Group II (b) or (d) | Group II (a) | Selected Language Part. |
| V. Group III (b) | Group III (c) | Persian Part. |
| VI. Group III (c) | Group III (b) | Urdu Part. |

(These candidates need not take Intermediate Group D in the new language or subject).

CHAPTER LXXII.

Degree of Bachelor of Oriental Learning (Honours).

1. Candidates for the B.O.L. (Honours) Degree shall be required to have passed the Intermediate Examination in Arts and Science of this University with Group D, or an examination accepted by the Syndicate as equivalent thereto and to have subsequently undergone a prescribed course of study in a Constituent or an Affiliated College for a period of not less than three academic years or nine terms.

2. The course shall consist of two parts, Part I—English, and Part II—the advanced study of a selected Language.

Part I—Preliminary: English—to be studied for one academic year or three terms.

Part II—Final: One of the following Branches to be studied for a period of three academic years or nine terms:—

Branch I—Sanskrit.

Branch II—One of the following languages:—

Course of Study. Tamil, Telugu, Kannada, Malayalam.

Branch III—One of the following languages:—

Arabic, Persian, Urdu.

Part I—English.

(1) The study in detail of certain prescribed text-books; and (2) the study of certain books prescribed for perusal.

Part II—

A

One of the following Branches:—

Branch I—Sanskrit,

The course shall consist of (a) a general and (b) a special part.

(a) General—1. History of Language and Literature.
2. Essay.

(b) Special—One of the following subjects:—

(1) Mimamsa, (2) Vedānta, (3) Nyāya, (4) Vyākaraṇa, (5) Sāhitya, (6) Jyotiṣa, (7) Ayurveda.

Note.—The text-books prescribed for the B.O.L. (Honours) Degree Examination in these various subjects shall include works of a distinctly higher standard than those prescribed for the B.O.L. (Pass) Degree Examination.

Branch II—One of the following languages:

(a) Tamil, (b) Telugu, (c) Kannada, (d) Malayalam.

The course shall consist of prescribed text-books in the selected language, History of the Language and Philology, Grammar, History of Literature and Literary Criticism, a Cognate Language or Special Period or Special Branch of Literature, and Inscriptions and South Indian History.

Branch III—One of the following languages:—

(a) Arabic, (b) Persian, (c) Urdu.

Candidates taking Branch I or II or III (c)—Urdu—shall, besides the selected language, take *The History of India* and candidates taking Branch III (a) or (b) shall, besides the selected language, take *Early Islamic History*.

3. The scheme of examination shall be as follows:—

Part I—English.*

| | | | Hours. | Marks. |
|-------------------------------|---------------------|-----|--------|------------|
| Scheme of Examination. | English Prose | ... | 3 | 100 |
| | English Composition | ... | 3 | 100 |
| | Total | | | 200 |

[**Note.*—These two papers shall be the same as for the B.A. (Honours) Degree Examination, Part I—Preliminary.]

Part II—There shall be seven papers in the selected language carrying a total of 1,250 marks and one paper on The History of India for candidates taking Branch I or II or III (c), and on Early Islamic History for candidates taking Branch III (a) or (b) carrying 150 marks.

Branch I—Sanskrit.—There shall be two papers in the General Part and five papers in the Special Part. Two papers in the Special Part shall be on books not included in the scheme of the B.O.L. (Pass) Degree Examination. In all the other five papers a higher standard shall be required than that for the B.O.L. (Pass) Degree.

| Scheme of examination. | Hours. | Marks. |
|---|--------|--------|
| (1) History of Sanskrit Language and Literature | 3 | 200 |
| (2) Essay | 3 | 175 |
| (3) Prescribed Text-books— Special I | 3 | 175 |
| (4) Prescribed Text-books— Special II | 3 | 175 |
| (5) Prescribed Text-books— Special III | 3 | 175 |
| (6) Prescribed Text-books— Special IV | 3 | 175 |
| (7) Prescribed Text-books— Special V | 3 | 175 |
| Total | ... | 1,250 |

Branch II—One of the following languages :—

Tamil, Telugu, Kannada, Malayalam.

In each of the languages there shall be two papers on prescribed text-books, one paper on the Cognate Language or Special Period or Special Branch of Literature, one paper on the History of Language and Philology, one paper on Grammar, one paper on the History of Literature and Literary Criticism and one paper on Inscriptions and South Indian History.

| | Hours. | Marks |
|--|--------|--------------|
| (1) Prescribed Text-books in the Language I ... | 3 | 175 |
| (2) Prescribed Text-books in the Language II ... | 3 | 175 |
| (3) Cognate Language or Special Period or Special Branch of Literature | 3 | 175 |
| (4) History of Language and Philology | 3 | 175 |
| (5) Grammar ... | 3 | 200 |
| (6) History of Literature and Literary Criticism ... | 3 | 175 |
| (7) Inscriptions and South Indian History ... | 3 | 175 |
| Total ... | | <u>1,250</u> |

Branch III—One of the following languages :—

Arabic, Persian, Urdu.

Arabic.—There shall be one paper on Pre-Islamic History, one paper on prescribed text-books, one paper on History of Arabic Language and Literature, one paper on Prescribed text-books (Asrar-al-Shariah), one paper on Islamic Mysticism, one paper on Grammar and Comparative Philology and one paper on Essay.

| | Hours. | Marks. |
|--|--------|--------------|
| A { (1) Pre-Islamic History ... | 3 | 175 |
| (2) Prose and Poetry Text-books ... | 3 | 175 |
| (3) History of Arabic Language and Literature ... | 3 | 175 |
| B { (4) Prescribed Text-books (Asrar-al-Shariah) ... | 3 | 175 |
| (5) Islamic Mysticism ... | 3 | 175 |
| C { (6) Grammar and Comparative Philology ... | 3 | 175 |
| (7) Essay ... | 3 | 200 |
| Total | | <u>1,250</u> |

Persian.—There shall be two papers on prescribed text-books, two papers on History of Language and Literature, one paper on Persian Grammar, Prosody and Rhetoric, one paper on Essay in Persian, and one paper on Arabic Text-books and Grammar.

| | | Hours. | Marks. |
|-------|--|--------|--------|
| A { | (1) Prescribed text-books in Prose ... | 3 | 175 |
| | (2) Prescribed text-books in Poetry ... | 3 | 175 |
| | (3) History of Language and Literature, Comparative Philology and Literary Criticism from the earliest times to the Mongol Period ... | | 175 |
| B { | (4) History of Language and Literature, Comparative Philology and Literary Criticism with special reference to Mongol Period of Iranian Literature ... | 3 | 175 |
| | (5) Persian Grammar, Prosody and Rhetoric ... | 3 | 175 |
| | (6) Essay in Persian ... | 3 | 200 |
| C { | (7) Arabic Text-books and Grammar... | 3 | 175 |
| Total | | | 1,250 |

Urdu.—There shall be two papers on prescribed text-books, one paper on History of Urdu Literature and Literary Criticism, one paper on Comparative Philology of Indo-Aryan Languages with special reference to the development of Urdu Language, two papers on the special study of a period or an author or a subject prescribed, and one paper on a Cognate Language (Arabic, Persian or Hindi).

| | | Hours. | Marks. |
|-----|--|--------|--------|
| A { | (1) Prescribed text-books in Prose ... | 3 | 175 |
| | (2) Prescribed text-books in Poetry ... | 3 | 175 |
| | (3) History of Urdu Literature and Literary Criticism ... | | 175 |
| B { | (4) Comparative Philology of Indo-Aryan Languages with special reference to the development of Urdu Language ... | | 175 |

Hours. Marks.

- [(5) & (6) Special Subjects : Any two of]
the following subjects selecting not
more than one from each Group:—
- (a) One of the following periods :—
(1) Old Urdu (up to 1100 A.D.)
(2) Early Period of Urdu in Delhi
(3) Development of Urdu in
Lucknow
(4) The Fort William College
(5) Sir Sayyid and his School
(6) Modern Period
- (b) One of the following authors :—
- | | | |
|-------------------------|---|-----|
| | 3 | 175 |
| (1) Wali | 3 | 175 |
| (2) Mir | | |
| (3) Rajab Ali Baig Saur | | |
| (4) Shibli | | |
| (5) Azad Md. Husain | | |
| (6) Nazir Ahmed | | |
- (c) One of the following subjects :—
(1) Ghazal. (6) Ornate Prose.
(2) Qasida. (7) Biography.
(3) Mathnawi. (8) Epistles.
(4) Rubai. (9) Drama.
(5) Marthiya. ... }
- (7) Any one of the following Cognate
Languages :—
- | | | |
|-------------|-----|---------|
| (1) Arabic | ... | } 3 200 |
| (2) Persian | ... | |
| (3) Hindi | ... | |

Total 1,250

- * The History of India for candi-
dates taking Branch I, II or
III (c), or Early Islamic
History [for candidates taking
Branch III (a) or (b)] ... 3 150

Grand total (for each Branch) 1,400

* The paper on *The History of India* shall be the same as for
B.A. (Honours) Branch III.

4. All the papers in the examination for the B.O.L. (Honours) under Part II (except the papers on Inscriptions and South Indian History, on The History of India and on Early Islamic History) shall be set and answered in the respective languages to which they relate.

Language in which question papers will be set.

5. A candidate for the B.O.L. (Honours) Degree Examination may present himself for the Preliminary Examination (Part I) at the end of the first year. No candidate shall be admitted to the Final Examination (Part II) unless he has passed the Preliminary Examination (Part I).

Part I Examination to be taken at the end of the first year.

6. No candidate shall be permitted to undergo the complete Final Examination in Honours more than once. A candidate for the Final Examination shall be permitted to withdraw from the examination, provided he has not sat for the last paper in the examination, and provided he has given notice of withdrawal to the Registrar within three clear days from the date of the last paper which he answered. He shall be permitted to appear again for the Final Examination in the following year without producing any additional certificate of attendance.

Final Examination to be taken only once.

Note.—A candidate shall be deemed to have sat for the last paper if he has entered the hall in which the examination for the last paper is held.

7. A candidate for the B. O. L. (Honours) Degree shall be required to appear for the Final Examination in Honours—

Time-limit to appear for Final Examination.

(1) not later than the end of the fourth year after commencing the Honours Degree course in a college ; or

(2) in the case of a Bachelor of Oriental Learning (Pass) proceeding to the Honours Degree Examination, not later than three years after commencing the Honours Degree course in a college.

8. *Part I—English—Preliminary Examination.*—A candidate who secures not less than 40 per cent. of the aggregate marks in the two papers in English shall be declared to have passed the examination in Part I.

A candidate who secures not less than 60 per cent. of the aggregate marks shall be declared to have passed the examination with distinction.

9. *Part II—Final Examination.*—A candidate shall be declared to have passed the examination in one of the branches of knowledge for the B.O.L. (Honours) Degree if he obtains not less than 40 per cent. of the total marks and not less than 30 per cent. in each division of the examination. All other candidates shall be deemed to have failed in the examination for Honours. The Divisions shall be as follows:—

Branch I—Sanskrit—

- | | |
|---|---|
| Divisions of the subjects for examination. | (1) The History of India, History of Language and Literature and Essay. |
| | (2) Prescribed text-books (first three papers). |
| | (3) Prescribed text-books (last two papers). |

Branch II—Tamil, Telugu, Kannada, Malayalam—

- (1) Text-books, Related Language, etc. (3 papers).
- (2) History of Language and Philology and Grammar (2 papers).
- (3) History of Literature and Literary Criticism, Inscriptions and South Indian History and The History of India (3 papers).

Branch III—

Arabic—

- (1) Papers 1, 2 and 3.
- (2) Papers 4 and 5.
- (3) Papers 6 and 7 and Early Islamic History.

Persian—

- (1) Prescribed Text-books (2 papers)
- (2) History of Language and Literature, etc., and Persian Grammar, Prosody and Rhetoric (3 papers).
- (3) Essay, Arabic Text-books and Grammar and Early Islamic History (3 papers).

Urdu—

- (1) Prescribed Text-books (2 papers).
- (2) History of Urdu Literature and Literary Criticism, Comparative Philology, etc., and The History of India (3 papers).
- (3) Special Subjects and Cognate Language (3 papers).

10. Successful candidates in the examination shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in three

Classification of successful candidates.

Candidates who obtain not less than 60 per cent. of the aggregate marks shall be placed in the first class; those who obtain less than 60 per cent. but not less than 50 per cent. shall be placed in the second class; and all the other successful candidates shall be placed in the third class.

11. In the event of a candidate for the B. O. L. (Honours) Degree failing to satisfy the Examiners he may be recommended by them for the B.O.L. (Pass) Degree, provided that he obtains not less than $33\frac{1}{3}$ per cent. of the total marks and not less than 25 per cent. in each division of the examination.

Candidates for B.O.L. (Hons.)—when recommended for B.O.L.

12. (a) A candidate not already eligible for the B.O.L. (Pass) Degree, who, having failed completely in the B. O. L. (Honours) Degree Examination, desires to appear for the B.O.L. (Pass) Degree Examination shall be allowed to do so without the production of a

Failed candidates may appear for B.O.L.

further certificate of attendance in a Constituent or an Affiliated College.

(b) A candidate not already eligible for the B. O. L. (Pass) Degree who, after being registered, presents himself for the B.O.L. (Honours) Degree Examination in any year and withdraws from the same and is prevented through illness or otherwise, from subsequently presenting himself for the examination within the period prescribed under Regulation 6 (1) *supra*, shall be allowed to appear for the B.O.L. (Pass) Degree Examination without the production of a further certificate of attendance in a Constituent or an Affiliated College.

Withdrawn candidates from Hons. may appear for B.O.L.

Candidates appearing under this Regulation for the B.O.L. (Pass) Degree Examination shall appear for and take under Part II of the examination the same optional subject which they studied for the B.O.L. (Honours) Degree Course. They shall be exempted from re-appearance in Part I.

13. A candidate who has passed the B. O. L. (Pass) Degree Examination of this University under the Old Regulations or under the New Regulations or an examination of some other University accepted by the Syndicate as equivalent thereto, shall be permitted to appear and qualify for the B.O.L. (Honours) Degree examination of this University after a further course of two academic years in a Constituent or an Affiliated College of this University.

Exemptions in the case of B.O.L.s

He shall be exempted from passing the B. O. L. (Honours) Preliminary Examination—Part I—English.

14. A candidate who has qualified for the B. O. L. (Honours) Degree Examination of this University shall be permitted to appear for a different optional Branch under Part II of the B.O.L. (Honours) Degree Examination provided that the Syndicate is satisfied that he has undergone the prescribed course of study for the selected new Branch of Optional subjects by attending a Constituent or Affiliated

B. O. L. (Hons.) Degree holder qualifying for another subject in B.O.L. (Hons.)

College for a period of not less than two academic years or six terms and he shall be exempted from the course of study and examination in Part I—Preliminary English and in The History of India or Early Islamic History under Part II-B if he had already passed in it. A candidate who has taken any subject under Branch I shall be further exempted from the General Part under Branch I, if he selects another subject under Branch I.

CHAPTER LXXIII.

Titles and Degrees in Music in the Faculty of Fine Arts.

(*Sangita Siromani Title and Bachelor of Music Degree*).

1. There shall be examinations in Indian Music qualifying for Titles and Degrees in the Faculty of Fine Arts as in Regulations *infra*.

2. The Title awarded shall be called Sangita Siromani.

SANGITA SIROMANI.

3. The course of studies for this examination shall extend over a period of four academic years and shall be pursued in a Constituent or an Affiliated College or an institution approved by the Syndicate.

Duration of the course.

4. The examination for the Title shall consist of two parts: the Preliminary and the Final—

Examinations. the Preliminary Examination at the end of the second academic year and the Final Examination at the end of the fourth academic year:

Provided, however, that no candidate shall be admitted to the Final Examination unless he has passed the Preliminary Examination, and a period of one academic year has elapsed thereafter.

5. The course of study shall be as follows:—

Preliminary.

Course of Study. *Part I*—Theory of Indian Music and History of Indian Music (Modern Period) including prescribed classical works relating to the Music of the Modern Period.

Part II—A Selected Language (Sanskrit, Tamil, Telugu, Kannada or Malayalam).

The syllabuses, text-books and the examination shall be the same as those for Part II of the Intermediate Examination in the language concerned.

Part III—Practical—Vocal, Veena, Violin, Gotuvadyam Flute, Nagaswaram. Any *two* of the above, one of which shall be of the main standard and the other of the subsidiary standard, provided vocal shall be one of the subjects chosen.

Final.

Part I—Theory of Indian Music, including the prescribed classical works on Indian Music.

History of Indian Music—Ancient and Mediaeval Periods.

Part II—Practical: Main and Subsidiary.

The instrument offered for the Final Examination shall be the same as for the Preliminary Examination:

Provided, however, a candidate may have the option in the Final Examination of interchanging the main and subsidiary subjects offered by him for the Preliminary Examination.

6. The scheme of examination shall be as follows:—

Preliminary.

| | Subjects. | Hours. | Marks. |
|------------------------|--|--------|--------|
| <i>Part I—</i> | | | |
| Scheme of Examination. | Theory of Indian Music I (including the prescribed classical works). | 3 | 100 |
| | Theory of Indian Music II (including the History of Indian Music). | 3 | 100 |
| | | | |
| <i>Part II—</i> | | | |
| | Selected Language, Paper I ... | 3 | 100 |
| | Selected Language, Paper II ... | 3 | 100 |
| <i>Part III—</i> | | | |
| | Practical (Main) .. | | 125 |
| | Practical (Subsidiary) | | 75 |
| | Total ... | | 600 |

| <i>Final.</i> | | Hours. | Marks |
|--|-----|--------|-------|
| <i>Part I—</i> | | | |
| Theory of Indian Music I | ... | 3 | 100 |
| Theory of Indian Music II (including prescribed classical works) | ... | 3 | 100 |
| History of Indian Music | ... | 3 | 100 |
| <i>Part II—</i> | | | |
| Practical (Main) I | ... | ... | 100 |
| Practical (Main) II | ... | ... | 100 |
| Practical (Subsidiary) | ... | ... | 100 |
| Total | | | 600 |

7. No person shall be permitted to enter upon the course of study for the Title unless he has satisfied the conditions laid down in Law 4 of Chapter XXXV of the Laws of the University.

Eligibility for admission to the course.

8. A candidate shall be declared to have passed the Preliminary Examination if he obtains not less than 35 per cent. of the marks in each of Parts I and II, 40 per cent. in Part III and not less than 40 per cent. of the total marks.

Marks qualifying for a pass.

A candidate shall be declared to have passed the Final Examination if he obtains not less than 35 per cent. of the marks in Part I, 40 per cent. in Part II and 40 per cent. of the total marks.

Successful candidates in the Final Examination shall be arranged in two classes—the First consisting of those who obtain not less than 60 per cent. and the second consisting of the rest.

Classification of successful candidates.

9. Candidates who have passed in Part II of the Intermediate or B.A. Degree Examination of this University with Sanskrit, Tamil, Telugu, Kannada or Malayalam shall be exempted from being examined in Part II of the Preliminary Examination.

Exemptions from course and examination in Part II—Preliminary.

10. Candidates who have passed the Intermediate Examination in Arts and Science of this University with Indian Music as one of the subjects under Part III may be permitted to sit for the Preliminary Examination for the Title without being required to produce the necessary certificate of attendance.

Candidates who have passed the B.A. Degree Examination of this University with Indian Music under Part III shall be exempted from the Preliminary Examination and shall be permitted to appear for the Final Examination after undergoing the course for one academic year.

Holders of the Diploma in Indian Music of this University under the Regulations in force from 1937-38 shall be exempted from Parts I and III of the Preliminary Examination and shall be allowed to appear for the Final Examination after a course of two academic years provided they have passed in Part II of the Preliminary Examination before taking the Final Examination.

Candidates under the above Regulation who have not offered for the Intermediate or B.A.* Degree Examination of this University one of the languages prescribed under Part II of the Preliminary Examination shall be required to undergo the course for one academic year and pass the examination in one of those languages not less than one academic year before appearing for the Final Examination, provided that the above course may be taken concurrently with the Sangita Siromani Course.

Degree of Bachelor of Music (B. Mus.)

11. Candidates for the Degree of Bachelor of Music shall be required to have passed the Intermediate Examination in Arts and Science of this University with Indian Music as one of the subjects under Part III or an examination accepted by the Syndicate as equivalent thereto and to have subsequently pursued a course of study in a constituent or an affiliated college for a period of not less than two academic years.

12. The course for the B. Mus. Degree shall consist of three parts and comprise instruction in the following subjects according to a syllabus to be prescribed from time to time.

Part I.

Any one of the following Languages at the option of the candidate:—

(i) English.

(ii) Classical—

| | |
|----------|---------|
| Sanskrit | Arabic |
| Greek | Persian |
| Latin | Hebrew |
| | Syriac |

(iii) Modern—

| | | |
|-------------|-----------|-----------|
| (a) Foreign | French | German |
| | Tamil | Marathi |
| | Telugu | Oriya |
| (b) Indian | Kannada | Hindi |
| | Malayalam | Burmese |
| | Urdu | Sinhalese |

Part II.

(a) History of Indian Music.

Theory of Indian Music including prescribed books.

(b) One of the following special subjects:—

- (1) Comparative study of Indian and Western Music.
- (2) Comparative study of South Indian and North Indian Music.
- (3) Srutis.
- (4) Evolution of Scales and Ragas.
- (5) Evolution of Compositional Types.

Part III.

(1) Vocal and (2) one out of Veena, Violin, Flute, Gottuvadyam and Nagasvaram.

(One to the main standard and the other to the standard).

13. (a) *Part I—Language*:—The examination shall be a written one and the scheme of examination and of marks shall be the same as for Part I of the B.Sc. (Pass) Degree Examination (*vide* Regulation 3 of Chapter XLIX).

(b) *Part II*—There shall be one paper on the History of Indian Music, two papers on the Theory of Indian Music including prescribed text-books, and one paper in the special subject.

(c) *Part III*—There shall be practical tests both in the main and in the subsidiary subjects.

The scheme of examination for Parts II and III shall be as follows:—

Part II.

| Subjects. | Hours. | Marks. |
|--|--------|-----------|
| (a) History of Indian Music ... | 3 | 100 |
| Theory of Indian Music I (including prescribed text-books) ... | 3 | 100 |
| Theory of Indian Music II (including prescribed text books). | 3 | 100 |
| (b) Special Subject | 3 | 100 |
| Total | | <hr/> 400 |

Part III.

| | |
|------------------------|-----------|
| Practical (Main) I | 100 |
| Practical (Main) II | 100 |
| Practical (Subsidiary) | 100 |
| Total | <hr/> 300 |
| Grand Total | <hr/> 700 |

14. A candidate shall not be eligible for the Degree of Indian Music unless he has passed the examination in a language under Part I, the examination in the subjects under Part II, and the practical tests under Part III.

Eligibility for the Degree. A candidate shall be declared to have passed Part I of the examination if he obtains not less than 40 per cent. of the marks in that part; a candidate shall be declared to have passed Part II of the examination if he obtains not less than 40 per cent. of the marks in that part; and a candidate shall be declared to have passed Part III of the examination if he obtains not less than 40 per cent. of the marks in that part.

Marks qualifying for a Pass. Successful candidates in Part I shall be arranged in three classes:—the first consisting of those who obtain not less than 60 per cent., the second of those who obtain less than 60 per cent. and not less than 50 per cent., and the third of those who obtain less than 50 per cent.

Classification of successful candidates. Successful candidates in Parts II and III at the same examination shall be arranged in three classes:—the first consisting of those who obtain not less than 60 per cent. of the total marks for both the parts together, the second of those who obtain less than 60 per cent. and not less than 50 per cent., and the third of those who obtain less than 50 per cent.

15. A candidate for the B. Mus. Degree Examination may present himself for Part I at the end of the first year of the course and thereafter may present himself for the whole or for any of the parts at any one time.

16. No candidate shall be admitted to Parts II and III of the examination for the B. Mus. Degree until the end of the second year course and unless he presents himself for Part I of the examination or has already presented himself for Part I.

CHAPTER LXXIV.

Diploma Courses.

(1) *Diploma in Economics.*

Eligibility for Diploma. 1. No candidate shall be eligible for the Diploma in Economics unless he has completed the prescribed course of study and has satisfied the examiners in the qualifying examination.

Course of study. 2. The course of study shall be:—

1. Economics.
2. Statistical Methods.
3. Recent Economic History and Economic Geography.
4. Rural Economics.
5. Social Economics (including Elements of Social Institutions).
6. A special subject in 4 or 5.

Every candidate shall also submit before 1st July a short thesis based on original enquiry on some problem of limited scope connected with either 4 or 5.

Qualification for admission. 3. The course of study shall be open only to students who have qualified for a degree in this University or other recognised Universities.

Applications. 4. Applications to enter upon the course of study must reach the Professor of Indian Economics not later than the 15th June of each year.

Duration of Course. 5. The course for the Diploma in Economics shall be normally for one year, but for part-time students it shall extend over two years.

6. No student shall be admitted to the examination unless he or she has attended not less than three-fourths of the lectures and classes provided, and also produces the prescribed certificate.

7. A fee of Rs. 75 shall be paid to the University by each student on admission to the course, except in the case of part-time students who may pay the fee in two annual instalments of Rs. 37-8-0.

8. A candidate shall be declared to have passed the examination if he obtains not less than forty per cent. of the total marks in all the papers taken together. All the other candidates shall be deemed to have failed in the examination. Successful candidates obtaining not less than 60 per cent. of the marks shall be declared to have passed with distinction.

9. Notwithstanding anything contained in the foregoing Regulations, it shall be competent for the Syndicate, by previous notice in the *Fort St. George Gazette*, to suspend for any year or any number of years the courses and examinations for the Diploma in Economics provided always that any student permitted to enter upon the courses, who qualified for the certificate prescribed in Regulation 6, shall be permitted to present himself for examination in accordance with the Regulations at the earliest opportunity at which he would have been entitled to appear but for suspensory notice.

(2) *Diploma in Politics and Public Administration.*

10. No candidate shall be eligible for the Diploma in Politics and Public Administration unless he has completed the prescribed course of study and has satisfied the examiners in the qualifying examination.

Course of study.

11. The course of study shall comprise the following subjects:—

- * 1. Politics.
- 2. Public Administration—Principles and Practice.
- 3. History of Administration in India and the Machinery of the Government of India (Central, Provincial and Local).
- 4. Economics.
- 5. Public Finance.
- 6. One of the following optionals in Law:—
 - Law of Contract.
 - Indian Penal Code.
 - Land Tenures.
 - Indian Constitutional Law.
- 7. One of the following optionals in Commerce:—
 - Business Organisation.
 - Accounts and Cost Accounting.

12. Admission to the course of study shall be open to persons who have passed the Intermediate Examination in Arts and Science of this University or an examination of some other University accepted by the Syndicate as equivalent thereto, and such others as may be considered fit, to undergo the course, by the Syndicate, and have been certified as such by the Head of the Department.

13. Applications to enter upon the course of study must reach the Registrar not later than the 15th June of each year, in the prescribed form obtainable at the Office of the Registrar.

* The syllabuses in the subjects with asterisk will be the same as for the Groups (iv-a) and (iv-b) of the B.A. (Pass) Degree Course. In other subjects, syllabuses will be prescribed from time to time.

**Duration of
Course.**

14. The course shall be a part-time one extending over two academic years or six terms.

Provided, however, that a student who has already qualified for the B.A. (Honours) or M.A. Degree of this University with History or Economics or Politics shall be exempted from undergoing the course for one academic year, and from being examined in any three of the following papers taken by him for the Degree :—

† Politics

Public Administration.

Economics.

Public Finance.

A student who has already passed the B.L. Degree Examination of this University shall be exempted from the course and examination in the Optional Subject in Law, but such a student shall be required to undergo the prescribed course of two academic years or six terms.

Such candidates shall, however, pay the prescribed fee for the whole examination.

15. No student shall be admitted to the examination unless he has attended not less than 75 per cent. of the total attendance at lectures and has produced a certificate from the Head of the Department certifying that his progress and conduct have been satisfactory.

**Scheme of
Examination.**

16. The scheme of examination shall be as follows :—

| | | | Hours. | Marks. |
|------------------------------------|-----|-----|--------|--------|
| 1. Politics | ... | ... | 3 | 100 |
| 2. Public Administration | ... | ... | 3 | 100 |
| 3. History of Administration, etc. | ... | ... | 3 | 100 |
| 4. Economics | ... | ... | 3 | 100 |
| 5. Public Finance | ... | ... | 3 | 100 |

† NOTE.—In the case of those who have qualified for the B.A. (Honours) Degree in Politics, 'Politics' will include the three compulsory papers in Politics.

| | Hours. | Marks. |
|------------------------------------|--------|--------|
| 6. Optional Subject (Law) ... | 3 | 100 |
| 7. Optional Subject (Commerce) ... | 3 | 100 |
| Total | | 700 |

**Passing
Marks, and
Classification
of successful
candidates.**

17. A candidate shall be declared to have passed the examination if he obtains not less than 30 per cent. in each of the following groups :—

- (a) Politics,
Public Administration,
History of Administration in India
and the Machinery of the
Government of India (Central,
Provincial and Local), and
Optional Subject (Law) ;
- (b) Economics,
Public Finance, and
Optional Subject (Commerce);

and not less than 40 per cent. of the total marks in all the papers taken together. All other candidates shall be deemed to have failed in the examination. Successful candidates obtaining not less than 60 per cent. of the marks shall be declared to have passed with distinction.

Candidates under the proviso to Regulation 14 *supra* shall be declared to have passed the examination if they obtain not less than 30 per cent. of the marks in the papers taken by them under each group, and not less than 40 per cent. of the marks in the aggregate of the papers taken by them.

Successful candidates under this category shall be arranged in a separate list.

18. Notwithstanding anything contained in the above Regulations, it shall be competent for the Syndicate, by previous notice in the *Fort St. George Gazette*, to suspend for any year or any number of years the course and examination for the Diploma in Politics and Public Administration.

**Syndicate
competent to
suspend course
and examina-
tion.**

(3) *Diploma in Co-operation.*

19. No candidate shall be eligible for the Diploma in Co-operation unless he has completed the prescribed course of study and has satisfied the examiners in the qualifying examination.

Eligibility for Diploma.

Course of study.

20. The course of study shall be:—

- (i) Economics : (a) Agricultural Organisation, and (b) Industrial and Commercial Organisation.
- (ii) Co-operation—History and Principles.
- (iii) „ —Law and Practice.
- (iv) Banking—Law and Practice.
- (v) Accountancy.
- (vi) Auditing.

21. Every candidate shall also undergo practical training for three months under the direction of the Registrar of Co-operative Societies in institutions recommended by him and shall be examined with special reference to his practical knowledge in one of the following subjects :—

Practical training.

- (a) Co-operative Banking; (b) Land Mortgage Banking ; (c) Stores ; (d) Marketing.

22. Admission to the course shall be open to persons who have passed the B. A. or B. A. (Honours) Degree Examination in History or Economics of this University or an examination of some other University recognised by the Syndicate as equivalent thereto, and such others who, after passing the Intermediate Examination, are engaged in co-operative service, whether Government or private, for a period of not less than two years.

Qualification for admission.

23. The course for the Diploma in Co-operation shall be a full-time course extending over one academic year.

Duration of course.

24. No student shall be admitted to the examination unless he has attended not less than three-fourths of the lectures and classes provided and has undergone the practical training prescribed, and also produces the prescribed certificate.

Scheme of Examination. 25. The scheme of examination shall be as follows:—

| | Hours. Marks. | |
|--|---------------|-----|
| (1) Economics—Agricultural Organisation and Industrial and Commercial Organisation | | 100 |
| (2) Co-operation I—History and Principles | ... | 100 |
| (3) Co-operation II—Law and Practice | ... 3 | 100 |
| (4) Banking—Law and Practice. | 3 | 100 |
| (5) Accountancy | ... 3 | 100 |
| (6) Auditing | ... 3 | 100 |
| (7) Practical Examination | ... 3 | 100 |
| | Total .. | 700 |

26. A candidate shall be declared to have passed the examination if he obtains not less than 40 per cent. of the total marks in all the papers taken together, and not less than 30 per cent. in each of the papers. All the other candidates shall be deemed to have failed in the examination. Successful candidates obtaining not less than 60 per cent. of the marks shall be declared to have passed with distinction.

(4) *Diploma in Statistics.*

27. No candidate shall be eligible for the Diploma in Statistics unless he has completed the prescribed course of study and has satisfied the examiners in the qualifying examination.

Eligibility for Diploma.

Course of study. 28. The course of study shall comprise the following subjects:—

- (1) Mathematics. (Those who have taken Mathematics, either as main or as subsidiary subject, for a degree course will be exempted from this paper).
- (2) Economics. (Those who have taken Economics for a degree course will be exempted from this paper).
- (3) Statistical Methods.
- (4) Applied Statistics.
- (5) & (6) Two of the following subjects:—
 - Actuarial Statistics.
 - Economic Statistics.
 - Mathematical Economics and Econometrics.
 - Vital Statistics and Population Problems.
 - Agricultural Statistics (including Design of Experiments).
- (7) Practical Examination.

Qualification for admission. 29. The course of study shall be open only to students who have qualified for a degree in this University or other recognised Universities.

Applications. 30. Applications for admission to the course must reach the Registrar not later than the 15th June of each year, in the prescribed form obtainable at the Office of the Registrar.

Duration of course. 31. The course shall be a part-time one extending over two academic years or six terms.

32. No student shall be admitted to the examination unless he has attended not less than
Attendance. 75 per cent. of the total attendance at lectures and has produced a certificate from the Head of the Department certifying that his progress and conduct have been satisfactory.

Scheme of Examination. 33. The scheme of examination shall be as follows:—

| | Hours. | Marks. |
|-----------------------|--------|--------|
| Mathematics | ... | 3 100 |
| Economics | ... | 3 100 |
| Statistical Methods | ... | 3 100 |
| Applied Statistics | ... | 3 100 |
| Special Subject I | ... | 3 100 |
| Special Subject II | ... | 3 100 |
| Practical Examination | ... | 3 75 |
| Practical Note-book | ... | 25 |
| Total | | 700 |

At the Practical Examination candidates must submit to the Examiner or Examiners their laboratory note-books duly certified by their Professors or Lecturers, as *bona fide* record of work done by the candidates.

34. A candidate shall be declared to have passed the examination if he obtains not less than
Passing Marks, and Classification of successful candidates. 30 per cent. of the marks in each paper, and 40 per cent. in the aggregate; in the case of a candidate who has been exempted from (1) Mathematics, or (2) Economics, the aggregate shall be of the papers excluding the paper in which he has been exempted. Successful candidates obtaining not less than 60 per cent. of the marks shall be declared to have passed with distinction.

35. Notwithstanding anything contained in the above Regulations, it shall be competent for the Syndicate, by previous notice in the *Fort St. George Gazette*, to suspend for any year or any number of years the course and examination for the Diploma in Statistics.
Syndicate competent to suspend course and examination.

(5) *Diplomas in French and German.*

36. No candidate shall be eligible for the Diploma in French or German who has not undergone a prescribed course and satisfied the examiners in the qualifying examination.

Eligibility for Diploma.

37. No candidate shall be admitted to the courses of instruction in French and German who has not passed the examination for Certificates of Proficiency in Oriental Learning or the Matriculation Examination of this University or an examination recognised by the Syndicate as equivalent thereto.

Qualification for admission.

38. The course, which is a part-time course, is primarily intended for such persons as are desirous of proceeding over-seas for higher studies, but shall be open to the other persons approved by the Syndicate provided they have satisfied the condition laid down in Law 37 of this Chapter.

**Course—
for whom
intended.**

39. The course shall consist of three terms extending over one academic year. The course may be conducted by the University itself or in a college recognized by or affiliated to this University.

**Duration
of course.**

40. Applications for admission to the course conducted by the University must reach the Registrar not later than the 15th June.

Applications.

41. For the purpose of entrance to the course no previous acquaintance with the language is required and the candidates will be taught on a syllabus and text-books prescribed from year to year.

42. There shall be an examination held yearly in the first week of July or on such other dates as may be fixed by the Syndicate.

**Date of
Examination.**

43. No student shall be admitted to the examination unless he has attended not less than 75 per cent. of the total attendances at lectures and has produced a certificate from the Lecturer certifying that his progress and conduct have been satisfactory. The examination shall consist of two papers, the first of three hours' and the second of two hours' duration. The first paper shall contain questions on text-books and grammar, and the second paper shall contain questions on translation from the selected language into English and *vice versa*.
- Attendance.**
- Examination.**

A candidate shall be declared to have passed the examination if he obtains not less than forty per cent. of the total marks in all the papers taken together. All other candidates shall be deemed to have failed in the examination. Successful candidates obtaining not less than sixty per cent. of the marks shall be declared to have passed with distinction.

Passing Marks, and Classification of successful candidates.

45. The fee for the course in either French or German shall be Rs. 45 payable to the University on admission to the course, provided that in the case of students reading for the Honours Degree Examination in Arts and Science, other Degree Examinations (including Professional Degree Examinations), or the Diploma Examinations in Economics and Geography, and students in the Bachelor of Engineering class who have still to complete their practical course, preference being given to students reading for Honours, a concession fee which may be fixed by the Syndicate shall be levied; and provided the number of students admitted at the reduced rate in any particular year shall not exceed 50 per cent. of the total admissions in each language in that year.

Fee.

46. Notwithstanding anything contained in this Chapter, it shall be competent for the Syndicate, by previous notice in the *Fort St. George Gazette*, to suspend for any year or any number of years the course and examination for the Diploma in French or German.

Syndicate competent to suspend course and examination.

(6) *Diploma in Librarianship.*

47. No candidate shall be eligible for the Diploma in Librarianship unless he has taken a degree in this University or a degree in some other University accepted as equivalent thereto by the Syndicate and has completed the prescribed course of study and has satisfied the examiners in the qualifying examination.

48. The course for the Diploma in Librarianship shall be a full-time course and shall extend normally over a period of one academic year—July to March.

The course shall ordinarily consist of lectures and practical work and comprise the study in the following:—

PART I.

Theory.—

1. Bibliography.
2. Book Selection.
3. Library Organisation.
4. Library Administration.
5. Classification.
6. Cataloguing.
7. Reference Work.

(For Syllabus *vide* Appendix XXII).

PART II.

Practical.—

1. Book Selection.
2. Classification by the Colon and Dewey Schemes.
3. Cataloguing by the Cataloguing Rules of the Madras University Library.
4. Work in an approved Library for one term.

49. No candidate shall be admitted to the course unless he has qualified for a degree in this University or a degree in some other University accepted as equivalent thereto by the Syndicate.

50. Applications for admission to the course must be submitted to the Registrar so as to reach him not later than the 15th June of each year, in the prescribed form obtainable at the Office of the Registrar.

51. The fee for the course shall be Rs. 60 which shall be paid by every student on admission to the course.

52. There shall be an examination—both written and practical—at the end of the course, and the scheme of examination shall be as follows :—

| | Hours. | Marks. |
|---|--------|--------|
| Bibliography, Book Selection and Reference Work | 3 | 100 |
| Organisation ... | 3 | 100 |
| Administration | 3 | 100 |
| Classification ... | 3 | 100 |
| Cataloguing ... | 3 | 100 |
| <i>Practical Examination :-</i> | | |
| Classification ... | 3 | 100 |
| Cataloguing ... | 3 | 100 |
| Total | | |

53. No candidate shall be admitted to the examination unless he has attended not less than three-fourths of the lectures and practical classes provided, and has produced the prescribed certificates.

54. No candidate shall be declared to have passed the examination unless he has obtained not less than 30 per cent. in each Division and not less than 40 per cent. in the total.

Divisions.

The divisions shall be as follows :—

Division I—Classification (Written and Practical).

„ II—Cataloguing (Written and Practical).

„ III—All other subjects, *viz.*, Bibliography,
Book Selection, Organisation,
Administration, and Reference
Work.

55. Successful candidates shall be arranged in three classes :—

The first, consisting of those who obtain not less than 30 per cent. in each division, and 60 per cent. of the total, the second, of those who obtain not less than 30 per cent. in each division, and 50 per cent. of the total, and the third, of those who obtain not less than 30 per cent. in each division, and 40 per cent. of the total.

**Classification
of successful
candidates.**

56. A candidate may, at his option, present himself for the whole or for any division or divisions of the examination at any one time. He should, however, pay the fee for the whole examination at his first appearance. Candidates who qualify for the Diploma by passing the examination in divisions shall be ranked in the third class separately.

57. Candidates who fail at an examination may, without putting in any additional attendance at the course, appear for the examination in whole or in divisions in any subsequent year.

58. The Syndicate may, by notification in the *Fort St. George Gazette*, suspend the course for the Diploma in any year if it finds it necessary to do so.

(7) *Diploma in Geography.*

59. No candidate shall be eligible for the Diploma in Geography unless he has completed the prescribed course of study and has passed the qualifying examination.

**Eligibility for
Diploma.**

60. No candidate shall be admitted to the course unless he has qualified for a Degree in **Qualification for admission.** Arts or Science of this University or a Degree of any other recognised University accepted as equivalent thereto by the Syndicate.

It shall be competent for the Syndicate to admit persons who have passed the Intermediate Examination with Geography as their optional subject, and Teachers in Schools or Colleges within the jurisdiction of this University who can produce evidence of sufficient knowledge of the subject which will enable them to profit by the course.

61. Applications for admission to the course must reach the Registrar not later than the 15th June of each year. **Applications.**

62. The course of study shall be as follows:—

(1) The Physical Basis of Geography, including the elements of Meteorology, Oceanography, and Geomorphology (for Syllabus *vide* **Course of study.** Appendix XXII).

(2) General Regional Geography of the World with a special study of the Regional Geography of India and any one of the six continents. (The particular continent will be prescribed from time to time).

(3) A short course in one of the following:—

- (a) Historical Geography.
- (b) Political Geography.
- (c) Economic Geography.
- (d) Bio-Geography.
- (e) Anthro-po-Geography.

(4) Practical Geography.

Every candidate shall also submit—

(i) before the 15th May following the written and practical examination a short dissertation on a selected area in India:

or

(ii) before the 1st April in the year of the examination, his Field Work records,

Duration of course. 63. The course for the Diplom shall be normally one academic year—July to March.

Attendance. 64. No student shall be admitted to the examination unless he has attended not less than three-fourths of the lectures and other classes provided and has obtained the prescribed progress and attendance certificate.

Fee. 65. The fee for the course shall be Rs. 75, or Rs. 100 in the case of those selecting "Field Work", which shall be paid by every student on admission to the course.

Scheme of Examination. 66. The scheme of examination shall be as follows :—

Part I.

| | Hours. | Marks. |
|-------------------------------------|--------|------------|
| Physical Basis of Geography ... | 3 | 100 |
| Practical Geography ... | 3 | 100 |
| Field Work Records or Dissertation. | | 100 |
| Practical Note-book ... | | 100 |
| Total | | 400 |

Part II.

| | | |
|--|---|------------|
| Regional Geography of the World ... | 3 | 100 |
| Regional Geography of India ... | 3 | 100 |
| Regional Geography of the Selected Continent ... | 3 | 100 |
| Optional Subject ... | 3 | 100 |
| Total | | 400 |

Marks qualifying for a pass. 67. Candidates shall be declared to have passed the examination if they obtain not less than 35 per cent. of the marks in every paper, and not less than 40 per cent. of the marks in each part:

Provided, however, that a candidate who obtains the prescribed minima in any part shall be exempted from re-examination in the subjects included in the part.

68. Successful candidates who obtain not less than 60 per cent. of the aggregate marks, and pass in both parts together shall be declared to have passed the examination with distinction.

69. It shall be competent for the Syndicate to suspend the course in any year or for a number of years.

(8) *Diploma in Indian Music.*

70. No candidate shall be eligible for the Diploma in Indian Music who has not undergone the prescribed course and has not passed the qualifying examination.

Eligibility for Diploma.

71. No candidate shall be admitted to the course unless he has been declared eligible for admission to a University course of study or has passed the Matriculation Examination or an examination recognized by the Syndicate as equivalent thereto, and has already received sufficient training in Indian Music to enable him to benefit by the Diploma course;

Qualification for admission.

provided, however, it shall be competent for the Syndicate to admit to the course women students sufficiently trained in Indian Music who are holders of completed Secondary School-Leaving Certificates, but are not declared eligible for admission to University courses of study.

72. The course shall be a full-time course primarily intended for such persons as desire to attain high proficiency in Indian Music.

Course—for whom intended.

73. Applications for admission to the course must be received in the Registrar's Office before the 15th June each year. Applicants may be subjected to a test before selection.

Applications.

74. The course shall extend over a period of two academic years or six terms.

Duration of Course.

75. Instruction shall be imparted in the Theory and Practice of Music, Vocal, Violin, Veena, Gotuvadyam and Flute.

Course of Study.

The course of study shall be prescribed from time-to-time. Candidates shall take either Vocal or Instrumental Music (Violin or Veena or Gotuvadyam or Flute) for the practical course.

Attendance. 76. No candidate shall be admitted to the examination unless he has kept not less than three-fourths of the attendance and produced the required certificates of attendance and progress ;

Appearance in another subject for Practical Test. provided, however, it shall be competent for the Syndicate to permit any student who has already passed the Diploma Examination in Indian Music to offer another subject for the practical test one year after his passing the Diploma Examination on production of the prescribed attendance certificates for one year in that subject, the certificates being earned by attendance either before or subsequent to the first successful appearance at the Diploma Examination and on payment of the prescribed fee.

A candidate coming under this proviso shall not be admitted to the Diploma at a Special Meeting of the Senate a second time, but a special certificate setting forth the further subject of the examination passed by him and the date of such examination shall be given to him.

Scheme of Examination. 77. The examination shall be both written and practical. There shall be two papers on Theory, each of three hours' duration and two practical tests. At the practical examination candidates shall be expected to sing or play any of the ragas prescribed as well as compositions in any of the talas prescribed.

Marks qualifying for a pass. 78. A candidate shall be declared to have passed the examination if he obtains not less than 35 per cent. of the marks in Theory, 45 per cent. of the marks in the Practical Examination, and 50 per cent. of the marks in the aggregate.

Successful candidates obtaining not less than 60 per cent. of the marks in the Practical Examination and 75 per cent. of the marks in the aggregate shall be declared to have passed with distinction.

Candidates appearing under the proviso to Regulation 76 *supra* shall be deemed to have passed the examination if they obtain 45 per cent. of the marks in the new practical subject.

79. It shall be competent for the Syndicate to suspend the course in any year or for a number of years.

80. Notwithstanding anything contained in the above Regulations, students who have been admitted to the Diploma Course in Indian Music and the examinations in accordance with the Transitory Regulations framed in the years, 1933-34, and 1934-35, and who have not qualified for the Diploma, may be admitted again to the course and permitted to appear for the Diploma Examination.

Degree of Bachelor of Science in Technology.

[B. Sc. (Tech.)]

(Revised Regulations.)

(To be incorporated in Vol. I, Part II, Calendar, as a separate Chapter after the Chapter relating to the B.V.Sc. Degree.)

1. Candidates for admission to the examination for the Degree of Bachelor of Science in Technology shall be required to have passed the B.A. or B.Sc. Degree Examination of this University or of some other University accepted as equivalent thereto. Candidates offering Branches (a), (b), (d), (f) or (g) shall be required to have passed the B. A. or B. Sc. Degree Examination with Chemistry as Main and Physics as Subsidiary subjects. Candidates offering Branch (c) shall have taken either Physics or Chemistry as Main and the other as Subsidiary subject, while candidates offering Branch (e) shall be required to have taken Chemistry as Main and Botany as Subsidiary subjects. All such candidates shall have taken Mathematics as one of the optional subjects under Part III of the Intermediate Examination. The prescribed course shall be undergone in a College of Technology of the University for a period of not less than two academic years.

2. The course of instruction shall cover any one of the following Branches of study :—

- | | |
|-------------------------------|--------------------------|
| <i>Branches of Study.</i> | (a) Chemical Engineering |
| | (b) Textile Chemistry |
| | (c) Textile Technology |

- (d) Leather Technology
- (e) Pharmaceuticals and Fine Chemicals
- (f) Electro-Chemistry
- (g) Industrial Fermentation

3. Every candidate appearing for the examination shall produce certificates—

Certificates of Attendance, etc. (a) of having attended at least 80 per cent. of the lectures and practical

(b) of having satisfied a test conducted by the Department ;

and

(c) of his progress and conduct having been satisfactory.

4. The examination for the Degree shall be both written and practical. The scheme of examination shall be as follows:—

(a) **Chemical Engineering.**

PART I.

Group A.

| | | | Hours. | Marks. |
|-------|------------------------------|-----|--------|--------|
| *(1) | German | ... | 2 | 50 |
| *(2) | Applied Mathematics | ... | 3 | 50 |
| *(3) | Applied Physical Chemistry I | ... | 3 | 100 |
| (4-A) | Industrial Geology | ... | 3 | 100 |

Group B.

| | | |
|------|--|-----|
| *(5) | General Engineering I—(A) Engineering Materials and Construction of Works ; (B) Fuel Technology. | 100 |
|------|--|-----|

Scheme of Examination.

* Common Papers.

| | | Hours. | Marks. |
|-------|---|--------|--------|
| * (6) | General Engineering II—(A) Power Generation and Transmission ; (B) Electrical Plants and Machinery | 3 | 100 |
| * (7) | General Chemical Engineering | 3 | 100 |
| * (8) | Drawing I | 3 | 100 |

*Group C.**Practical Tests:—*

| | | | |
|------|---------------------------------------|-----|--------------|
| (i) | Industrial Chemical Analysis ... | 6 | 175 |
| | Laboratory Records ... | ... | 25 |
| (ii) | Electrical Engineering Laboratory ... | 3 | 50 |
| | Mechanical Engineering Laboratory ... | 3 | 50 |
| | Workshop ... | 3 | 50 |
| | Engineering Records ... | | 50 |
| | Total ... | | <u>1,100</u> |

PART II.

Group A.

| | | | |
|--------|--|---|-----|
| * (9) | General Chemical Technology ... | 3 | 100 |
| * (10) | Industrial Organisation and Economics ... | 3 | 100 |
| (11) | (a) Mechanical Construction, and arrangement of Chemical Plant (b) Materials of Construction for Chemical Plant | | 100 |
| (12) | (a) Applied Physical Chemistry II (b) Technical Measurements and Control and Stoichiometry | | 100 |

Group B.

| | | | |
|------|--|--|-----|
| (13) | (a) Transport and Storage of Materials (b) Design and Operation of Unit Types of Chemical Plant I | | 100 |
|------|--|--|-----|

* Common Papers.

| | Hours. | Marks. |
|--|--------|--------|
| (14) (a) Heat Transmission | } | 100 |
| (b) Design and Operation of Unit Types of Chemical Plant II | | |
| (15) Drawing II | | 100 |
| (16) Design of a full Chemical Plant (Home Paper) | } | 100 |

Group C.

Practical and Viva Voce:—

| | | |
|-----------------------------|---|-----|
| Chemical Engineering I | 6 | 100 |
| Chemical Engineering II | 6 | 100 |
| Chemical Engineering III | 6 | 100 |
| General Chemical Technology | 6 | 100 |
| Class Records | | 100 |
| Viva Voce Examination | | 100 |

Total ... 1,400

(c) Textile Technology.

PART I.

Group A.

| | | | |
|-------------------------------------|-----|---|-----|
| *(2) Applied Mathematics | ... | 3 | 50 |
| *(3) Applied Physical Chemistry I | ... | 3 | 100 |
| *(4-B) Industrial Organic Chemistry | ... | 3 | 100 |
| *(6) General Engineering II | ... | 3 | 100 |
| *(7) General Chemical Engineering | ... | 3 | 100 |
| *(8) Drawing I | ... | 3 | 100 |

Group B.

| | | | |
|--|-----|---|----|
| (17) Preparation and Spinning I | ... | 3 | 75 |
| (18) Preparation and Weaving I | ... | 3 | 75 |
| (19) Fabric Structure and Designing—Part I | ... | 3 | 75 |
| (20) General Textile Technology | ... | 3 | 75 |

* Common papers.

Hours. Marks.

*Group C.**Practical Tests:—*

| | | |
|--------------------------------------|---|--------------|
| (i) Industrial Chemical Analysis ... | 6 | 100 |
| (ii) (a) Preparation and Spinning I | 3 | 75 |
| (b) Preparation and Weaving I | 3 | 75 |
| Total ... | | <u>1,100</u> |

PART II.

Group A.

| | | |
|--|---|-----|
| 10) Industrial Organisation and Economics ... | 3 | 100 |
| (21) Preparation and Spinning II ... | 3 | 100 |
| (22) Preparation and Weaving II ... | 3 | 100 |
| (23) Fabric Structure and Designing —Part II ... | 3 | 100 |

Group B.

| | | |
|---|---|-----|
| (24) Textile Chemistry (General) ... | 3 | 100 |
| (25) Cloth Analysis and Costing of Yarn and Cloth ... | 3 | 100 |
| (26) Textile Engineering ... | 3 | 100 |
| (27) Economics of Cotton Industry and Trade ... | | 100 |

*Group C.**Practical Tests :—*

| | | |
|---|---|-------|
| Preparation and Spinning II ... | 3 | 100 |
| Preparation and Weaving II ... | 3 | 100 |
| Bleaching, Dyeing, Printing and Finishing ... | 3 | 100 |
| Hosiery manufacture ... | 3 | 50 |
| Designing ... | 3 | 100 |
| Cloth Analysis and Testing ... | 3 | 100 |
| Class Records ... | | 50 |
| Total | | 1,400 |

* Common Papers.

(d) Leather Technology.

PART I.

Group A.

| | | | | |
|---------|------------------------------|-----|---|-----|
| * (1) | German | ... | 2 | 50 |
| * (2) | Applied Mathematics | ... | 3 | 50 |
| * (3) | Applied Physical Chemistry I | ... | 3 | 100 |
| * (4-B) | Industrial Organic Chemistry | ... | 3 | 100 |
| * (6) | General Engineering II | ... | 3 | 100 |
| * (7) | General Chemical Engineering | ... | 3 | 100 |
| * (8) | Drawing I | ... | 3 | 100 |

Group B

| | | | |
|------|------------------------------------|---|-----|
| (28) | Introductory Leather Manufacture | 3 | 100 |
| (29) | Chemistry of Leather Manufacture I | 3 | 100 |

*Group C.**Practical Tests:—*

| | | | | |
|------|------------------------------|-----|---|-----|
| (i) | Industrial Chemical Analysis | ... | 6 | 175 |
| | Laboratory Records | ... | | 25 |
| (ii) | Leather Training Practical | ... | 3 | 100 |

| | | |
|-------|-----|-------|
| Total | ... | 1,100 |
|-------|-----|-------|

PART II.

Group A.

| | | | | |
|--------|---------------------------------------|-----|---|-----|
| * (9) | General Chemical Technology | ... | 3 | 100 |
| * (10) | Industrial Organisation and Economics | ... | 3 | 100 |
| (30) | Chemistry of Leather Manufacture II | ... | 3 | 100 |
| (31) | Chemistry of Leather Manufacture III | ... | 3 | 100 |

* Common Papers.

| | | Hours. | Marks. |
|-----------------|--|--------|--------|
| <i>Group B.</i> | | | |
| (32) | Organisation and Economics of Leather Manufacture | ... | 3 100 |
| (33) | Processes of Leather Manufac- ture I | | 100 |
| (34) | Processes of Leather Manufac- ture II | ... | 3 100 |
| (35) | Analytical Chemistry of Leather Manufacture | ... | 3 100 |

| | | Days. | Marks. |
|--------------------------|--|-------|--------|
| <i>Group C.</i> | | | |
| <i>Practical Tests:—</i> | | | |
| | Analyses of Materials and Products of Leather Manufacture | ... | 3 300 |
| | Dyeing and Finishing of Leather | ... | 1 100 |
| | Leather Tanning | ... | 1 100 |
| | Laboratory Records | ... | 50 |
| | Tannery Records | ... | 50 |
| | Total | | 1,400 |

(The scheme of examination for the other Branches (b) Textile Chemistry, (c) Pharmaceuticals and Fine Chemicals, (f) Electro-Chemistry, and (g) Industrial Fermentation will be prescribed later.)

Each candidate shall submit to the Examiners concerned his laboratory note-books containing the records of practical work performed during the period of his study, countersigned by the Professor or Head of the Department; on the first day of the Practical Examination.

5. Candidates may present themselves for Part I of the examination at the end of the first year of the course and for Part II at the end of the second year of the course. Candidates may sit for Part II only after passing Part I, subject to the provision in Regulation 7 *infra*.

B. Sc. (Tech.) Examinations in Parts I and II shall be held only once a year.

6. A candidate shall be declared to have
Percentage of Marks required for a pass. Part I of the examination, if he obtains not less than 35 per cent. in each of the papers of Group A, not less than 40 per cent. in each of the papers (written and practical) of Groups B and C, and not less than 40 per cent. of the aggregate marks.

A candidate shall be declared to have passed Part II of the examination, if he obtains not less than 40 per cent. in each of the papers (written and practical) and not less than 50 per cent. of the aggregate marks.

7. A candidate who obtains not less than 40 per cent. of the aggregate marks in Part I and not less than 50 per cent. of the aggregate marks in Part II, but fails in not more than two subjects only in Part I or Part II (written or practical) shall be exempted from reappearing in the subjects in which he has passed, and such a candidate shall be permitted to appear in those subjects at a subsequent appearance without any additional attendance.

Other candidates who fail in Part I or Part II shall be required to put in additional attendance before appearing for the examination again.

8. Candidates who pass in Parts I and II of the
Classification of successful candidates. examination on the first occasion of appearing therefor, shall be ranked in the order of proficiency as determined by the total marks obtained by each in both Parts, and shall be arranged in two classes, the First consisting of those who have obtained not less than sixty per cent. of the aggregate marks, and the Second consisting of all others. Candidates securing not

less than seventy-five per cent. of the aggregate marks shall be declared to have passed in the First Class with Honours. Those who complete or pass the examination at subsequent appearances will be placed in the Second Class separately.

9. Every candidate shall put in a practical course of three months in the case of Chemical *Practical Course.* Engineering, and not less than six months in the case of Leather and Textiles, in an approved Mill or Factory, before supplicating for the Degree.

10. Each student in Branch (a) Chemical Engineering shall be required to work on the design of a prescribed Chemical Manufacturing Plant and ~~to~~ write a critical report on a special technical subject. A period of nearly three months will be allowed for answering these questions and they should be submitted by the 1st April of each year marked outside "Home Paper" and bearing the Candidate's name.

*Home Paper for
Chemical Engin-
eering Branch.*

These questions shall be set by the Professor of Chemical Engineering, and in consultation with the Chairman of the Board of Examiners, not less than three months before the Final Examination.

11. Candidates who fail in Part I or II of the examination under the Old Regulations shall be required to put in additional attendance for one academic year, and permitted to sit for Part I or II of the examination, as the case may be, under the New Regulations. Those who fail in one or two subjects in Part I or II of the examination under the Old Regulations shall be required to take the corresponding paper under the New Regulations without any additional attendance.

*Transitory.
Regulation.*

SYLLABUSES FOR THE B.Sc. (TECH.) DEGREE COURSE.

(a) Chemical Engineering.

(1) German.

Reading and translation for the purpose of giving facility in the interpretation of German books and papers in Science and Technology.

The Examination will be a test of the capacity of the student to carry out free translation into English of German Literature in Chemistry and Chemical Technology.

(2) Applied Mathematics

Dimensional analysis:—Units and dimensions. Hospitalier notation for the conversion of units. Dimensionless numbers and their use in chemical engineering design. Dimensional similitude. Molal units.

Numerical analysis: Determination of empirical formulas with two and three constants.

Types of graphical representations:—(a) Rectangular co-ordinates. Scale factors. Use of semi-log and log-log scales for exponential and power functions. Scale modifications to avoid trial and error computations. Special scales, as for vapour pressure relationships. (b) Trilinear systems of co-ordinates. Calculations involving the composition of a mixture of two or more ternary compositions ($x+y+z=k$). Revival of spent acids.

Graphical computations:—Functional scales. Slide rules and Net Work charts. Their setting up and use. Alignment charts or nomograms. Simple equidistant parallel scales. General case of three parallel scales. Compound nomographs with pivot lines. N charts, Fan charts. Exercises in setting up nomographs *e.g.*, for friction drop in pipes, analytical calculations from titration readings, Heat transfer co-efficients, gas densities, etc.

Graphical methods of integration and differentiation.

Evaluation of observations. Absolute and relative errors. Simplified methods of arithmetical computations.

Differential equations. Solutions of ordinary differential equations and some of their applications.

(3) Applied Physical Chemistry I.

Reactions in homogeneous systems :—Free energy and Thermodynamic criteria of chemical equilibria. Variation of equilibrium constants with temperature. Methods of investigation of chemical equilibria. Technical gas reactions.

Factors influencing velocity of reactions ; temperature co-efficient of velocity constants ; chain reaction.

Catalysis: Theory and application :

Heterogeneous systems :—Technical applications of phase rule. Binary systems, eutectics, solid solutions and compounds. Thermal analysis and alloy systems.

Applied Electro-Chemistry :—Hydrogen ion concentrations, Buffer solutions, Indicators, Reversible cells ; Methods of measurement of pH. and its control in industrial processes.

Decomposition potential, polarisation, over-voltage. Electrolytic oxidation and reduction. Corrosion of metals.

Electrometric methods—Gravimetric electroanalysis, conductometric and potentiometric titrations ; Polarography.

Principles and practice of Electrodeposition and electro refining. Fused electrolytes.

Colloid Chemistry : General properties of colloid systems. Determination of particle size. Electrokinetics. Peptisation and protective action. Gels. Thixotropy. Colloidal Electrolytes, Donnan equilibrium, physical chemistry of soap solutions. Disperse systems in gases.

Surface Chemistry :—Orientation at interfaces, wetting and detergency. Chemistry of wetting agents, Textile assistants, foamers, and flotation processing agents. Lubricants and lubrication.

Adsorption : Physical and chemi sorption, Zeolites and allied products.

Emulsions : Emulsification and demulsification.

Applications of colloidal chemistry in technology of Rubber, Ceramics, leather, &c.

Photo Chemistry :—Fundamental laws. Photo chemical reactions. Technical photo chemical processes.

(4-A) Industrial Geology.

The occurrence of mineral deposits in Nature:—Elements of petrography and stratigraphy with particular reference to India. Mode of occurrence of principal minerals like abrasives, asbestos, Bauxite, Building stones, chromite, Clays, Copper, Gold, Iron, Natural refractories, Manganese, Mica, Monazites, Sulphur, etc. Prospecting and Mining in India.

Testing and grading of Minerals:—Principal physical properties of minerals; Mohr's scale.

Elements of crystallography: Symmetry, planes and axes of symmetry. Laws of crystallography. Systems of crystal notations. The seven crystal systems.

Identification of more important minerals with simple lenses and polarising microscope.

(4-B) Industrial Organic Chemistry.

Sugars, Starches and Cellulose:—Their occurrence, physical and chemical characteristics. Derivatives of Starch and Cellulose, Esters, ethers, etc.

Natural Colouring matters:—Chlorophyll, Carotenoids, Anthocyanins and Porphyrin.

Proteins:—Classification. Occurrence. Methods of isolation. Physical and chemical properties.

Vitamins and Hormones:—Their occurrence, properties and significance in nutrition.

Resins:—Natural resins. Classification, origin and properties. Thermal processing. Compatibilities. Gums and gum resins.

Tannins:—Classification. Occurrence. Methods of preparation. Industrial uses. Synthetic tannins.

Essential Oils and Terpenes:—Occurrence. Chemistry—methods of isolation and industrial uses.

Alkaloids:—Classification. Occurrence. Chemistry—methods of preparation. Properties.

(5) General Engineering I.

PART A.

• *Engineering Materials and Construction of Works.*

Properties of materials:—Physical and chemical properties of materials, their choice for specific purposes. Elements of

Engineering design in steel, concrete, and timber for simple plants and equipments.

Elements of fabrication, casting and foundry practice and simple workshop practice.

Planning and design of factory buildings—Lighting, ventilation, heating, drainage and sanitation. First aid and provision for fires, etc. Elements of design for foundations for plants and buildings. Ferro concrete constructions, chimneys, tanks and special structures.

PART B.

Fuel Technology.

Solid Fuels :—Wood and charcoal; peat, lignite and coals. Typical Indian coals. Distillation of coal and coking, carbonisation assay of coal, Briquetted coal, Pulverised coal and coal burning methods.

Liquid Fuels :—Crude petroleum and its distillation. Heavy fuel oil. Hydrogenation of coal. Petrol, Benzol, and alcohol fuel mixtures for I. C. engines. Physical and Chemical tests for fuel oil, Flash points, etc. Oil burners.

Gaseous Fuels :—Natural gas; Composite industrial gases. Illuminating gas, Coke-oven gas, Blue Water gas, and Carburetted water gas, Producer gas: Gas producers, and type of their design. Gas burners.

Sampling and Analysis of Fuels :

Coal and Oil: Ultimate and proximate analysis.

Gases: Technical gas analysis.

Heat value of Fuels :

Calorimetry :—(a) Bomb calorimeters for solids and heavy liquids. (b) Gas calorimeters for gas. (c) Use of above for liquid fuels. Sources of errors and corrections. Calculations of heat values : L.H.V. and H.H.V.

Control of Combustion :—Exhaust and flue gas sampling and analysis. Automatic flue gas analysis: CO₂ recorders. Combustion calculations. Heat losses in flue and exhaust gases. Surface combustion. Smoke determination and control.

(6) General Engineering II.**PART A.***Power Generation and Transmission.*

Properties of steam, principles of modern boiler plants, their equipment and accessories. Use of economisers and super-heaters—Testing of boilers.

Theory of heat engines, steam and internal combustion engines and steam turbines. Their operation and applications.

Mechanical power transmissions; shafting, belting, gear and chain driving, lubricants and lubrication.

PART B:*Electrical Plants and Machinery.*

D.C. generators, motors and starting equipments for the same. Storage batteries. Principles of alternating currents, measurements of power and power factor, single phase and poly phase supply. Principles of alternating current, generators, motors and starting devices. Use of transformers, rotary converters and rectifiers. Choice of A.C. and D.C. motors for specific drives. Electrical distribution and electrical tariffs in factories.

(7) General Chemical Engineering.

Scope of chemical Engineering. Effects of change of scale. Principles of process development.

Fluid flow, its nature and measurement with different types of meters. Transport of fluids and solids.

Heat transmission. Laws of heat transfer. Sources of heat. Furnaces and kilns; Heat exchangers, Evaporators.

Material Transfer. Laws of diffusion. Extraction, Crystallisation, Absorption, Distillation, Air conditioning, Drying.

Mechanical Separations: Sieves, Classifiers, centrifuges, cyclones, Filtration.

Mechanical Processing: Crushing, grinding and mixing.

Materials of construction of chemical plants, and general principles of plant design.

(8) Drawing I.

Plane Geometry:—Use of instruments, Proportional division of a line, construction of plain and diagonal scales, regular polygons, ellipse and parabola.

Solid Geometry :—Principles of projection. Projection of solids placed in simple positions, new plans and elevations and plane sections of solids.

Machine Drawing :—Use of scales. Forms, proportions, and use of bolts, studs, setscrews and nuts, split pins, and keys. Simple types of cotttered joints, bearings, hangers, wall brackets, Shaft couplings, belt and rope pulleys, stuffing boxes, valves and pipe joints.

Sketching :—Free hand sketching of machine details from models and machine parts. Lettering and dimensioning.

GROUP C.

(1) Industrial chemical analysis, covering : Ores, Metals, and alloys, oils and soaps, water, and analytical tests on chemicals of commerce.

(2) *Engineering Laboratories* :

Mechanical Engineering :—Strength of materials, performance of oils, gas and steam engines, Boiler Trial, Fuel testing, Performance of pump and measurement of fluid flow.

Electrical Engineering : Measurement of A. C. and D. C. power, Study of motors and motor starters, Efficiency tests on A. C. and D. C. motors.

Workshop : Carpentry: Simple joints, Construction of simple models. Chipping, filing, and simple fitting work. Lathe work : Simple machineshop processes. Smithy and Foundry work.

(9) General Chemical Technology.

(a) *Analytical Methods in Industrial Chemistry* :

Sampling, indicators, Spot-analysis; Assaying, Micro-analysis, Chromatography etc.

(b) *Inorganic Technology* :

1. Industries based on (i) *Common Salt*, Hydrochloric Acid, Sodium Sulphate, Sodium Sulphide, Sodium Carbonate, Sodium, Caustic Soda, Chlorine, Bleaching Powder, Potassium and Sodium Chlorates, Aluminium Chloride. (ii) *Sulphur and Sulphur Compounds*, Sulphur, Sulphuric Acid, Sodium Hydrosulphite, Sodium Sulphite. Sodium Thiosulphate, Alums. (iii) *Limestone, Clay and Sand*, Glass and Silica ware, Safety glass, Sodium Silicate, Lime, Cement, Earthenware, Ceramic raw materials, General

method of manufacture, Glazed Pottery, Fireclay goods, Faience.

2. *Industrial Gases* :—Hydrogen and Oxygen, Synthetic Ammonia and its Uses, Synthetic Nitric Acid, Carbon Dioxide, Carbon Monoxide, Rare Gases, Industrial utilisation of gases under high pressure.
3. *Metallurgical Processes* :—Nickel, Copper, Precious Metals, Electro-metallurgy, Sodium and Sodium Peroxide, Aluminium and Magnesium.
4. *Borates and Phosphates* :—Phosphorus, Industrially important Phosphorus Compounds, Superphosphates and Fertilisers.
5. *Pigments and Paints* : White pigment and extenders, Blank Fixe, Lithopone, White Lead, Zinc Oxide, Titanium Oxide, Ochres, Lakes, Monastral Blue, Paints and Varnishes.

(c) *Technology of Water and Water Analysis.*

(d) *Organic and Biochemical Industries :*

1. Oils, Fats, and Waxes, Refining and Hydrogenation, Soap boiling, Glycerin.
2. Cellulose, Paper, Artificial Silk, Cane Sugar, Starch, Glucose.
3. Coal, Distillation of Coal Tar, Gas, Coke and Tar. Low Temperature Carbonisation, Hydrogenation of Coal.
4. Explosives; Nitro-glycerin, Nitro-cellulose, Pyrotechnics, Chemical warfare.
5. Oil, Shale and Petroleum.
6. Dyestuffs; Vat dyes, Sulphide dyes, Dispersed dyes, Intermediates and their manufacture, Unit operation of Halogenation, Nitration, Reduction, Sulphonation, Alkali fusion, Oxidation, Carboxylation.
7. *Plastics and Rubber.* Phenol Formaldehyde Resins, Casein Formaldehyde Resins, Urea Formaldehyde Resins, Glyptal Resins, Polymerisation Resins.
8. *Industrial Solvents.* Alcohol, Acetone, Acetaldehyde, Ethyl Alcohol, Acetic Acid, Non-inflammable Solvents, Synthetic Methanol.
9. *Fine Chemicals.* Essences and Cosmetics, Analytical Chemicals, Photographic Chemicals, Disinfectants, and

Antiseptics, Pharmaceutical products, Anaesthetics, ether and Chloroform. Antipyretics, Hormones and Vitamins.

10. Fermentation Industries: Alcohol, Citric Acid, etc.

11. Food Industries.

12. Leather, Gelatin, Glue.

(10) Industrial Organisation and Economics.

Elements of Economics: Production, value, exchange, distribution and money.

Business Organisation and Finance:—Partnership and companies. Raising of capital in various forms. Laws of Commerce in India.

Industrial Administration and Laws:—"Scientific management" movement; industrial psychology, Labour problems. Partnership, Wage systems, production control. Safety methods and welfare work.

Factory legislations: Contracts of service and apprenticeship, their formation and discharge and the duties of master and servant thereunder. Employer's liability at common law. Factory Acts on Insurance, Wages, Hours of employment, Labour disputes, Dangerous trades, etc.

Cost Accounting and Factory Control:—Costs of raw material, Structures, Equipments and their erection, power, labour, maintenance and repair. Capital, depreciation, interest, etc., Preconstruction cost accounting.

Factory records and book-keeping. Balance sheet. Graphical and Statistical control. Purchasing and stores organisation, Marketing, Patents, Laws.

(11) (a) Mechanical Construction, and arrangement of Chemical Plant.

Elements of Surveying and Planning of Factory lay-out.

Theory of structures in steel and concrete, and timber, applied to supporting structure for chemical plant. Elements of machine design as applied to chemical plants, Design and construction of simple chemical units, such as tanks, bunkers, reaction vessels, and autoclaves for low, medium and high pressure equipments.

Principles of erection of heavy plants and equipments, their drives, their lay-outs and use of handling facilities like gantries; cranes etc.

(b) Materials of Construction for Chemical Plant.

Mechanical Properties. Theories of Corrosion and methods of prevention. Ferrous materials: Pure iron, Steels and their heat treatment, and Cast Irons. Non-ferrous materials: Copper, Nickel, Aluminium, Lead etc. and their alloys. Non-metallic Materials: Chemical Stoneware, Wood, Plastics, Rubber, Cements and Lutes.

Choice of materials for specific conditions. General principles of equipment design.

(12) (a) Applied Physical Chemistry II.

Thermodynamics of Internal Energy, Heat content, Free energy, and entropy. Heats of formation of compounds.

Chemical Thermodynamics. Energy changes and equilibria. Nernst's theorem. Application to specific technical reactions.

Heterogeneous Equilibria. Equilibrium in salt systems and melts. Ternary and higher systems in metal alloys. Elements of metallography.

Chemical Spectroscopy.

(b) Technical Measurements and Control and Stoichiometry.

Technical Measurements and Control:—Principles of Industrial Instrumentation, Indication and Control Equipments. Specific Variables and their Control. Pressure, Temperature and weight.

Fluid Flow:—Fluid dynamics, Bernoulli's theorem, Mechanism of Flow, Reynold's number, Friction losses, Viscous and Turbulent flow of compressible and non-compressible fluids, Fanning's Curve. *Flow Meters*:—Pitot, Orifice, Venturi, Weir, Area and other Meters. Process control—Automatic methods with corrections for different types of Lags.

Industrial Stoichiometry:—General Principles, material and energy balances, collection of data and methods of computation. Illustrative problems in Fuel Technology and other Chemical Industrial calculations.

(13) (a) Transport and Storage of Materials.

Movement of liquids and gases by means of pumps, blowers, etc., Pipelines and fittings. Compressors and vacuum pumps.

Transport of solids by mechanical means such as conveyors, elevators, trucks, etc.

Containers for gases, liquids and solids.

(b) Design and Operation of Unit Types of Chemical Plant I.

Unit plants for :

- (a) Size reduction, mixing and kneading.
- (b) Separation of solids from solids. Screens, hydraulic classifiers, hindered settling, floatation, Magnetic and electric separation. Extraction and crystallisation.
- (c) Separation of solids from liquids and gases. Sedimentation, thickeners, Centrifuges. Filtration, Industrial filters and filtration theories.
- (d) Separation of gases from gases. Condensation, Absorption, and Adsorption. The design and performance of packed and plate columns.
- (e) Conditioning of gases and air. Humidity charts, Humidifiers and dehumidifiers.

(14) (a) Heat Transmission.

General : Conduction : Flow of heat through furnace walls
Convection : film and overall coefficients of heat transfer, and correlation formulas. Design of surface condenser. Heat exchangers, single and multiple pass. Radiation. Fundamental laws, simplified equations for radiation.

Industrial Heating : Gas flow in furnaces, and friction losses in flues and conduits. Heat transfer in furnaces. Practical industrial furnace design, construction and operation. Elements of industrial electrical heating.

Industrial refrigeration : General principles, vapour compression, absorption and other mechanical refrigerators, coefficients of performance. Choice of vapours for commercial refrigerators.

(b) Design and Operation of Unit Types of Chemical Plant II.

Unit plants for :

- (a) Evaporation processes: principles of evaporator design. Single and multiple effects, and vapour recompression systems.
- (b) Distillation processes : Vapour equilibrium relationships. Distillation of mixtures with one, two, three or more volatile components. Steam distillation. Sublimation.

Rectifying columns, single and multiple columns. Azeotropic distillations.

(c) Drying processes. Mechanism of air drying. Commercial drier equipments.

(d) Chemical type processes. Homogeneous and Heterogeneous reactions, Nitration, Sulphonation, halogenation, etc.

(15) Drawing II.

Detailed and Assembly drawings. Sketching and preparation of working drawings for simple chemical plant units. Project or Erection drawing. Tracing and preparation of blue prints.

(16) Design of a full Chemical Plant (Home Paper).

Questions will be set on the design of a complete Chemical Manufacturing Plant or of chemical plant units and on critical reports covering Technical subjects. These questions will be distributed to the candidates three months before the Final Examination in Part II.

The questions will be a test on the ability of the candidates to tackle a practical problem in a suitable manner and in the same way as might be expected of him if he were in the service of a large firm and were required to report upon a new manufacturing proposal.

It is recommended, though it is not essential, that the answers be typewritten. The answers must be made upon foolscap paper, and the necessary drawings on high class drawing paper of convenient size, if blue prints are not submitted. When detailed or working drawings are asked for, all mechanical details of the construction must be clearly shown, so that the drawings could be used in the workshops for fabrication.

Full references should be given to the sources of information, which should all be *from published literature only*.

GROUP C

Practical Courses in Chemical Engineering, consisting of a selected number of experiments, covering:—

1. Physical and Chemical Testing of Materials of Construction.
2. Fluid Flow: its nature, and Measurement with Different Types of Meters.
3. Transport of Fluids: Performance and Efficiency Tests on Equipments.

4. Size reduction and mixing: Grindability Tests, Performance of Crushing and Grinding Equipments.
5. Classification and Concentration of Solids: Elutriators, Air Separators, Wilfley Table, Floatation Cell, Leaching and Extraction.
6. Filtration: Pressure and Vacuum Filtration, Compressibility of Cakes, Economic Operation of Filtration.
7. Heat Transfer Measurements: Heat Exchanger, Efficiency of Condensers. Boiler Tests.
8. Performance Tests on Stills, Evaporators, Fractionating columns, etc.
9. Absorption Studies: Simple Tube and Packed columns, Determining Coefficients of Material Transfer and H.T.U. Pressure Drop and Flooding in Packed Columns.
10. Drying Tests: Air and Vacuum Drying.
11. Semi-scale preparations.

(c) Textile Technology

(17) Preparation and Spinning.

PART I.

Description and working of Knife roller, Macarthy and Saw Ginning Machines, Hopper Bale Breakers, Hopper Feeders, Crighton Buckley, Porcupine, Exhaust, Youlten Openers; Pneumatic Conveyers, Dust Trunks, Scutchers, Flat and Shirley Carding Machines, Drawing Frames, Slubbing, Inter, Roving, and Jack Frames, Ring Spinning Machine, Doubling, Reeling, Bundling and Baling Machines.

Method of clothing cards, stripping and grinding of cards and fillets. Roller Covering. Principles of Drafting, Setting of machine parts, calculations relating to gearing, speeds, production and efficiency of machines, power consumption, etc.

(18) Preparation and Weaving.

PART I.

Description and working of Bobbin, Cheese, Cone and Pirn Winding Machines. Beam Warping machine, Slasher Sizing Machine, Hot Air Sizing Machine.

Method of preparing size mixing, size mixing apparatus; Drawing in and Twisting.

Description and working of power looms with plain and twill motions; Healds and Reed Calculations. Calculations relating to gearing, speeds, production, power consumption and efficiency of machines.

(19) Fabric Structure and Designing.

PART I.

Plain weave and its modifications. Twill and derivatives including Satins. Diamond and kindred weaves, construction of Crêpes, Spiders, and Grecians, Mock Lenos.

Elements and principles of ornaments. Influence of materials and structure upon ornament. Planning various types of ornament. Preparation of painted sketches for textiles. Treatment of natural and conventional forms.

(20) General Textile Technology.

Textile Fibres:—Fibres used in the manufacture of yarn for weaving, structure of cotton, silk, wool, art silk, linen and bast fibres, determination of fibre length. Physical properties of fibres, their quality and determination. Significance of test results, moisture content of fibres. Effect of humidity on strength and elasticity.

Action of Chemicals on Textile Fibres:—Action of Acids, Alkalies and Oxidising Agents, Salts, etc., on Textile Fibres. Water for textile purposes.

Sequence of Processes:—Processes used in the production of yarn and cloth from cotton, silk, wool, rayon and bast fibres. Operations of Bleaching, Dyeing, Finishing and Printing.

Cotton Cultivation:—Geographical position of the cotton fields of the world. Area within which cotton can be commercially cultivated. Physical conditions necessary to its growth and their influence upon the character of the fibre with special reference to Indian conditions. General procedure of cultivating and harvesting of cotton. Time of sowing and picking of cotton. Damage to crops, cotton acreage and yield per acre. General characteristics of the chief varieties of cotton. Grading of cotton in relation to their values and spinning properties. Methods of selecting cotton when purchasing, the defects usually existing and their effect upon the value. Commercial purposes of mixing cotton.

Sericulture and Silk Reeling:—Mulberry cultivation, Silk worm Rearing, Silk Reeling and Silk Throwing

Raising of Wool:—Sheep breeding, Wool Shearing and Sorting.

Textile Testing:—Systems of numbering cotton, Worsted, Woollen, Silk, Rayon, Linen, Folded, Grandrelle and Fancy Yarns and their conversions. Average and resultant yarn.

Stapling of fibres, Microscopical examination of fibres, Testing of yarn for count, strength, elasticity, twist, regularity, moisture and cleanliness. Comparison of strength of threads as shown by lea, single thread and ballastic yarn tests. Testing of cloth. Identification of fibres. Estimation of Cotton, Wool and Silk in yarn and fabric.

(21) Preparation and Spinning.

PART II.

Sliver Lap and Ribbon Lap machines, Nasmith and Heilmann Combers, Mule Spinning.

General outlines of waste spinning machinery, thread extractor and roving waste opener. Principles of drafting, setting of machine parts, calculations relating to gearing, speeds, production and efficiency of machines, power consumption, etc.

(22) Preparation and Weaving.

PART II.

Hank sizing, warp sizing, sectional warping, Scotch Dressing machine, sizing recipes, Chemistry of sizing materials.

Description and working of Dobbies, Jacquards, Drop Box Looms, Circular Box Looms, Looms for weaving special fabrics and automatic looms, Terry Reed Motion, Jacquard Harness Building, Card Cutting, Card Lacing. Calculations relating to gearing, speeds, production, power consumption and efficiency of machines.

(23) Fabric Structure and Designing.

PART II.

Bedford Cords, Welts and Pique, Backed fabrics, Terry Pile Fabrics, Plain and Fancy Double Cloths.

Leno and Gauze Weaves, Damasks and Brocades and Quiltings Extra Warp and Extra Weft Figuring.

Adoption of design to the scale and quality of texture. Designing patterns suitable for weaving on Jacquard machines. Economical distribution of colours in a design.

(24) Textile Chemistry: (General): (Bleaching, Dyeing, Printing and Finishing.)

Methods of Bleaching, Dyeing, Printing and Finishing. Dyes and their classification. Testing the fastness of dyed materials. Description and working of Singeing Machines, Boiling Kiers, Washing Machines, Hydro-Extractor, Electrolyser for Sodium Hypochlorite, Cloth Squeezing machine, Scutcher, Drying machine, Jiggers, Cheese Dyeing machine, Mercerising machine, Water and Starch mangles, Damping machines, Calendering machines, Measuring and Folding machines, Cloth printing machines.

(25) Cloth Analysis and Costing of Yarn and Cloth.

Comparative examination and testing of fabrics for weave, quality, material used, balance of structure, shrinkage, twist, strength of threads. Quantitative and qualitative analysis of mixed yarns and fabrics. Determination of grey particulars from dyed, bleached and finished fabrics. The effect on the appearance and strength of cloth due to alterations in structure. The effect of twist, high and low temperatures and moisture on the strength and appearance and the behaviour of threads and fabrics.

Costing of yarn, Quantities calculation, Warp and Weft Contraction, Wage Calculations, Yarn Prices, Distribution of overhead charges.

(26) Textile Engineering.

Selection of site for textile factories, Selection of machinery, Layout of buildings and machinery. Lighting, Heating, Ventilating and Humidifying of factories. Driving systems for machinery. Cost of constructing mills. Preparation of financial statements.

Machine Drawing:—Drawing of textile machinery and their parts.

Mill Organisation:—Method of selecting, sampling and purchasing raw cotton. Principles of cotton mixing. Setting of machinery for spinning different counts of yarn. Selection of materials for size mixing. Training of operatives. Repairs and renewals of machines. Fixing of wages.

(27) Economics of Cotton Industry and Trade.

Growth of the cotton Industry, changes in its organisation, relative importance of important cotton manufacturing countries in the world. Various markets for cotton. Variation in prices. Futures, hedging, marketing of yarn and fabrics. Import and export trade. Handloom weaving industry.

(d) Leather Technology.

(28) Introductory Leather Manufacture.

An elementary general course in Leather Manufacture dealing with the anatomy of hides, soaking, liming, deliming, bating etc ; the chief tanning processes both vegetable and chrome and the finishing of skins. The course includes the elementary study of tanning materials, chrome liquors, oils and fats etc.

(29) Chemistry of Leather Manufacture.

PART I.

Chemistry of curing of skins ; Anatomical structure of skin ; Ionisation of acids and bases commonly used in the tannery ; Theory and determination of hydrogen ion activity (pH) ; Hydrolysis ; General and physical chemistry of proteins, especially those occurring in hide ; Donnan Equilibrium ; Theory of swelling ; Colloids ; Bacteriology of leather Manufacture.

(30) Chemistry of Leather Manufacture.

PART II.

Technical water ; Water softening ; Influence of constituents on tannery processes ; Depilation ; Sweating ; Depilatories ; Chemistry of liming.

Natural and artificial bating materials ; Chemistry of peuring, bating and drenching.

Vegetable tanning materials with special reference to South Indian tanning materials ; Chemistry of vegetable tannins.

Fermentation of Tan liquors ; Tannin extracts ; Synthetic Tannins ; Theory of Vegetable Tanning.

(31) Chemistry of Leather Manufacture.**PART III.**

Mineral tanning materials ; Chemistry of chromium, Iron, and Aluminium ; Chemistry of Chrome liquors and of chrome tanning ; Theories of Chrome tanning.

Other tannages.

Soaps, oils, fats and waxes ; Theory of Emulsification and Emulsifiers. Chemistry of Dyestuffs and leather Dyeing.

Finishing materials, including starches, Gums, Mucilages, Resins Albumins, Pigments, Nitrocellulose and its solvents, etc.

Microscopy of Leather Manufacture; utilisation of Bye products—Glue manufacture.

(32) Organisation and Economics of Leather Manufacture.

Selection of site for tanneries.

Selection of machinery with special reference to the kind or kinds of leathers to be manufactured.

Layout of the tanneries, including the machinery.

Working of costs of manufacture of different classes of leathers.

(33) Processes of Leather Manufacture.**PART I.**

The preservation of raw hides and skins. Soaking ; sweating, liming, and other methods of depilation. Unhairing, fleshing and rounding. Deliming, bating, puering and drenching.

The grinding and leaching of tanning materials and the manufacture of extracts. The vegetable tanning process in general and the South Indian Tannage and the manufacture of sole, belting, harness and dressing leathers in particular. Dressing of East India tanned Kips. Manufacture of Moroccos and other fancy leathers.

(34) Processes of Leather Manufacture**PART II.**

Chrome one-bath and two-bath process, and the manufacture of box calf, glove kid, chrome sheep, etc.

Chrome sole and chrome leathers for technical purposes.

Alum tannages and the manufacture of glove and clothing leathers.

Oil tannages, Chamois. Buff leather. Fat leathers.

Tannages by means of formaldehyde. Quinone and synthetic tannins.

Combination tannages and the manufacture of variety of commercial leathers made by such combination processes.

Patent leather manufacture.

Leather dyeing and finishing.

Utilisation of bye-products and disposal of tannery waste.

(35) Analytical Chemistry of Leather Manufacture.

The analytical investigation of waters; liming and deliming materials; lime liquors; tanning materials; extracts; tanyard liquors; spent tanning materials; chrome liquors; gelatine; glue; soaps; oils, fats and waxes; sulphonated oils; mineral and vegetable tanned leathers; tannery effluents; etc; etc;.

Methods of determination of pH.

Degree of Bachelor of Science in Nursing-

(B.Sc. Nursing)

Regulations.

[To be incorporated in Vol. I, Part II, Calendar, as a separate Chapter after the Chapter relating to the B.Sc. (Pharmacy) Degree.]

1. Candidates for the Degree of B.Sc. (Nursing) shall be required to comply with each of the following conditions, *viz.*,

- (i) have completed the age of seventeen years on or before the date of admission to the course;
- (ii) have passed the Matriculation Examination of this University or of any other Indian University or have passed a qualifying examination of any University outside India which may be accepted by the Syndicate as equivalent thereto, or have completed the S.S.L. Certificate issued by the Government of Madras or the Indian State of Cochin or the E.S.L. Certificate issued under the orders of the Government of Madras or the Administration of Bangalore and Coorg, and been declared eligible for admission to a course of study in this University, or failing that, have passed any other examination conducted by a State, Province or Statutory Board accepted by the Syndicate as equivalent to the Matriculation Examination of this University ;

*Preliminary
Qualifica-
tions.*

- (iii) have been enrolled as a Nurse-Pupil and performed the routine duties of a hospital as a pupil nurse during the whole period of study in a Hospital affiliated to a Medical College and recognised for this purpose ;
- (iv) have undergone the prescribed course of study in a Constituent or Affiliated (Medical) College for a period of not less than two academic years (or six terms), and passed the Intermediate Examination in Science in Nursing; and
- (v) have undergone a further course of study for a period of two academic years (or six terms) in a Constituent or Affiliated (Medical) College in the subjects prescribed, and passed the B.Sc. Degree Examination in Nursing.

2. The courses of study for the B.Sc. Degree in Nursing shall comprise instruction in the following subjects, according to a syllabus to be prescribed from time to time :—

| <i>Academic Subjects.</i> | <i>Medical Subjects.</i> | <i>Nursing Subjects.</i> |
|---------------------------|--|--|
| English | Anatomy and Physiology. | Nursing and Allied Arts. |
| Physics and Chemistry. | Microbiology | History of Nursing. |
| Psychology and Sociology. | Nutrition and Diet Therapy. | Nursing—Medical and Surgical, Gynaecological, Children, Public Health and Advanced Nursing. |
| World History | Pharmacology and Therapeutics. Hygiene and Preventive Medicine. | Community Health and Social needs; Ward Administration and Teaching; Professional Opportunities and Adjustments. |

I. Intermediate Examination in Science in Nursing.

3. The course shall extend over a period of two academic years, and shall consist of :—

Part I—English

Part II—Chemistry and Physics

Psychology

Course of Anatomy and Physiology

Study. Microbiology

Nutrition and Diet Therapy

Part III—Nursing : as defined below.

The candidate shall be required to perform the routine duties of the hospital as a pupil nurse in a hospital affiliated to a Medical College and recognised for this purpose during the whole period of study; and no candidate applying for the examination at the end of the two years shall be permitted to appear therefor unless he or she produces such certificates of attendance and satisfactory progress, in the various subjects including practical nursing, as may be laid down from time to time. The examination shall consist of three parts; and a candidate appearing for the examination on the first occasion shall apply for all the parts of the examination, but may thereafter appear for any part or parts of the examination in which he or she has not already secured passing marks at the previous examination.

4. The scheme of examination shall be as follows :—

| | <i>Hours.</i> | <i>Marks.</i> |
|---------------------|---------------|---------------|
| <i>Part I:</i> | | |
| English Composition | ... 3 | 100 |
| Poetry and Drama | ... 3 | 100 |
| Prose | ... 3 | 100 |
| | | <hr/> 300 |

| <i>Part II:</i> | | <i>Hours.</i> | <i>Marks.</i> |
|-------------------------------|----------------------------|---------------|-----------------|
| <i>Scheme of Examination.</i> | Chemistry and Physics | 3 | 100 |
| | Psychology | 2½ | 75 |
| | Anatomy and Physiology | 3 | 100 |
| | Microbiology | 2½ | 75 |
| | Nutrition and Diet Therapy | 3 | 100 |
| | | | <hr/> 450 <hr/> |

Part III—Nursing :

| | | |
|-------------------------------|-------|-----------------|
| Nursing and Allied Arts | ... 3 | 100 |
| Medical and Surgical Nursing. | | |
| Pharmacology and Therapeutics | 3 | 100 |
| Practical Examination | ... | 150 |
| | | <hr/> 350 <hr/> |

5. A candidate shall be declared to have passed the examination if he or she obtains not less than (1) 35 per cent. of the marks in Part I—English, (2) 35 per cent. of the marks in each of the subjects in Part II, and 40 per cent. in the aggregate; and (3) 40 per cent. of the marks in each of the subjects in Part III, and 50 per cent. in the aggregate.

Candidates who pass in all the parts of the examination at one and the same sitting and obtain not less than 60 per cent. of the total marks shall be placed in the First Class. Such of the candidates as obtain 75 per cent. of the total marks shall be classed as having passed in the First Class with distinction. All other successful candidates shall be placed in the Second Class.

6. A candidate who fails either in Part I or in Part III or in two subjects of Part II may continue the courses of study for the next higher examination, subject to his or her passing in that part or subjects before appearing for the Final Examination for the B.Sc. Degree

in Nursing ; provided the failure was not less than one year prior to the date of appearing for the final qualifying examination.

II. B.Sc. Degree Examination in Nursing

7. Candidates for the examination for the B.Sc. Degree in Nursing shall, subject to the conditions under Regulation 6 *supra*, be required to have passed the Intermediate Examination in Science in Nursing of this University and to have subsequently undergone a course of study in a Constituent or Affiliated (Medical) College for a period of not less than two academic years (or six terms), in the following subjects :—

Part I—Any one of the following languages, at the option of the candidate:—

(i) English

or

(ii) Tamil

Telugu

Course of Study.

Kannada

Malayalam

Urdu

Text-books will be prescribed from time to time in the Languages.

Part II—Hygiene and Preventive Medicine

Professional Opportunities and Adjustments

World History and History of Nursing

Sociology

Part III—Nursing : as defined below.

Every candidate shall be required to perform the routine duties of the Hospital as a pupil nurse in a hospital affiliated to a Medical College and recognised for this purpose during the whole period of study, and shall produce

such certificates of attendance and satisfactory progress in the various subjects including practical nursing, as may be prescribed from time to time. Throughout the practical course of Nursing, stress will be laid on Public Health and preventive aspects of Medicine.

8. The scheme of examination shall be as follows:—

| | | | <i>Hours.</i> | <i>Marks.</i> |
|-------------------------------|--|-------|---------------|---------------|
| Part I— | | | | |
| <i>Scheme of Examination.</i> | English | | | |
| | or | | | |
| | Indian Language | | | 100 |
| Part II— | | | | |
| | Hygiene and Preventive Medicine | ... | | 100 |
| | Professional Opportunities and Adjustments | ... | | 100 |
| | World History and History of Nursing | ... 3 | | 100 |
| | Sociology | ... 3 | | 100 |
| | | | | <u>400</u> |
| Part III— <i>Nursing</i> : | | | | |
| | General | ... | | 100 |
| | Nursing of Children and Gynaecological Nursing | | | 100 |
| | Eye, Ear, Nose and Throat | ... | | 100 |
| | Practical Advanced Nursing | ... | | 150 |
| | Records (Each student to present 2 Nursing care studies and one health teaching study) | ... | | 150 |
| | | | | <u>600</u> |

9. A candidate shall be declared to have Part I of the examination if he or she obtains not less than 35 per cent. of the total marks in that part.

A candidate shall be declared to have passed Part II of the examination if he or she obtains not less than 35 per cent. of the marks in each subject and 40 per cent. in the aggregate.

Marks required for a pass.

A candidate shall be declared to have passed Part III of the examination if he or she obtains not less than 40 per cent. in each of the subjects comprised in the part, and 50 per cent. in the aggregate.

Candidates obtaining not less than 60 per cent. of the total marks in Part I shall be declared to have passed with distinction in the Part.

Classification.

Candidates who obtain not less than 60 per cent. of the total marks in Parts II and III together and who pass the examination at one and the same sitting shall be placed in the First Class, and candidates who obtain 75 per cent. of the aggregate marks in both the parts passing the parts at the first appearance shall be declared to have passed the examination in the First Class with distinction. All other successful candidates shall be placed in the Second Class.

10. Candidates who fail in any of the parts—II and III—or in the whole examination shall be required to put in an additional course of study including hospital training for a period which shall extend up to the next succeeding examination.

Additional attendance for failed candidates.

Syllabuses for the B.Sc. (Nursing) Degree Examination.

(1) ENGLISH.

The English course has been planned on new lines. English has been thought of not as one subject, distinct from the others, to be dealt with and dismissed, but as an integral part of the whole educational process and an instrument for the furtherance of its aims. Thus composition has been aligned to practical purposes. Prose texts have been chosen not purely for their intrinsic literary qualities, (commonly beyond the students' appreciation), but because they express stimulating ideas in good modern English. The aim is to make students read worthwhile books for what they can find there, not concern themselves with graces of style. Most of the books have a bearing on the wider issues of the Nursing profession, thus assisting the integration of the Course while helping to liberalise the mind. The discussion method should be used. No detailed work is required.

To effect the aims of the English Course it is essential that reliance be not placed on local resources for the supply of books, but that early steps be taken to get them in sufficient numbers from abroad. As the books are to be read and discussed, not studied in detail, it may not be necessary for each student to have copies.

First 2 years to be followed by the Preliminary examination.

Time: 3 periods a week for each of the 6 terms. Total 216 periods.

Aims: 1. To learn to write effectively in the capacity of a nurse.

2. To gain a love of reading.

3. To widen the mind by a pleasant introduction to things that matter especially to a nurse.

The Course shall consist of Composition and the reading of Poetry, Drama and Prose. No detailed study is required. Modern books to be chosen within the bounds of student's appreciation, and some of them having a bearing on the wider aspects of the Nursing Profession.

Composition.—A thorough training in the art of writing, based on instruction on the nature of the Sentence, the Paragraph, the Essay. Practice to be given in expansion and precis writing. Unity, coherence and Emphasis to be stressed throughout.

Practical application.—Instruction and practice shall be given in logical, concise and lucid expression with reference to the various

written transactions a senior nurse or nursing superintendent may be called upon to perform. These will include:—

Letter Writing.—Letters to Government, to Boards, Doctors, Municipal Chairmen, replies to advertisements, applications for posts, etc.

Reports.—Testimonials, work of student nurses, particular occurrences, annual reports, etc. Drawing up of *Nursing Schemes*, programmes, etc.

Poetry and Drama.—About 2,000 lines of poetry.

Palgrave's Golden Treasury may be used for the lyric poetry, the rest to be of about the same standard as Intermediate Poetry.

Light Drama.—Two plays selected from One Act Plays of To-day in 6 volumes. Suitable ones are:—

| | |
|------------------------------------|-------------------------|
| The Little Man | ... by John Galsworthy. |
| Night Watches | ... „ Allan Monkhouse. |
| Followers | ... „ Harold Brighouse. |
| Becky Sharp | ... „ Olive Conway. |
| It's the poor that 'elps the poor. | ... „ Harold Chapin. |
| The Lovely Miracle | ... Philip Johnson. |

Prose.—4 novels, 2 Classical and 2 Modern, 1 Biography, 1 book dealing with human progress in any sphere, uplift, exploration, medical science, etc.

Suitable Novels.

Classical:

Charles Dickens

Martin Chuzzlewit.

Nicholas Nickleby.

Oliver Twist.

Jane Austen

Any of the 6 novels.

George Elliot

Adam Bede.

The Mill on the Floss.

Charlotte Brontë

Jane Eyre.

Shirley.

Mrs. Gaskell

Cranford.

Modern:

H. G. Wells

Kipps.

The History of Mr. Polly.

Love and Mr. Lewisham.

| | |
|------------------|--|
| John Buchan | Greenmantle. Thirty-nine steps. |
| Conon Doyle | The White Company. The Fortune of Nigel. |
| Rider Haggard | She. King Solomon's Mines. |
| Countess Russell | Elizabeth and her German Garden and others. |
| Phyllis Bottome | Mortal Storm. |
| Mary Borden | Jane our stranger. |
| Margaret Irwin | None so pretty. |
| Olive Schreiner | Story of an African Farm. |
| Arthur Greenwood | Love on the dole. |

Biography:

| | |
|----------------------------------|--|
| Helen Keller | Autobiography. |
| The Microbe Hunters | Paul de Kruif. |
| Reminiscences of Linda Richards. | Linda Richards. |
| Florence Nightingale | ... Irene Cooper Wallis. |
| St. Francis of Assisi | ... G. K. Chesterton. |
| Seven Inventors | ... Henry Menicol (Oxford University Press). |
| Six Reformers | ... John Walton (Oxford University Press). |
| Roosevelts | ... Compton Mackenzie (Harrap |

Human Progress:

| | |
|---|-----------------------|
| Voiceless India | ... Gertrude Emerson. |
| Our India | ... Masani. |
| Socrates in an Indian Village. | F. L. Brayne. |
| Nurses on Horseback | ... Ernest Poole. |
| Socrates persists in India | ... F. L. Brayne. |
| Essay on the Cultivation of India, China and Japan. | Lowes Dickinson. |
| Footprints on the Sands of Time. | F. G. Pierce. |

| | |
|--------------------------|--|
| Great People of the Past | Rhoda Power. |
| Quest and Conquest | Malcolm Bar (Oxford University Press.) |
| Beyond the Sunset | J. Boog Watson. (Oxford University Press.) |

*Suggested choice of English Books for the
First Batch of Students.*

Intermediate Examination in Science in Nursing.

Poetry :—

Matthew Arnold—Sohrab and Rustom.

Byron—Prisoner of Chillon.

Tennyson—The Lotos Eaters.

and 500 lines of lyrical poetry from Palgrave's Golden Treasury
or any other suitable Anthology.

Drama :—

Shakespeare—Midsummer Night's Dream.

Galsworthy—The Little Man.

Arnold Bennett—The Step-mother. From One Act Plays of To-day
First Series.

Novels—Classical :—

Dickens—Martin Chuzzlewit; Mrs. Gaskell—Cranford.

Modern—H. G. Wells—Love and Mr. Lewisham.

Phyllis Bottome—Mortal Storm.

Biography—Helen Keller—Autobiography.

Human Progress—Nurses on Horseback. Ernest Poole.

Socrates in an Indian Village. F. L. Brayne.

Third and Fourth Years.

B.Sc. (Nursing) Degree Examination.

Time : 2 periods a week for the first year.

1 period a week for the second year.

- Aims :**
1. To train the student in correct and lucid expression of her own ideas.
 2. To accustom her to make use of books and libraries for pleasure and profit.
 3. To interest her in the wider aspects of Nursing through its interpretation in literature.

The course shall consist of Composition and a discussion under guidance of the more important topics suggested by, or arising from an intelligent study of the books prescribed. These will include two novels of ideas, one biography and one or two books dealing with Sociology, women's progress, advance of medical science, etc.

Books recommended :

- Bennett : The Old Wives' Tale.
 Pearl Buck : The Good Earth.
 Sir Edward Cook : Florence Nightingale.
 Winifred Holtby : Women.
 Hoyland : History of Civilization.

A good book dealing with the principles of English Composition, *e.g.*, Matriculation English Course by Low and Hollingworth (University Tutorial Press, London.) may also be prescribed.

(2) ANATOMY AND PHYSIOLOGY.

General Biological Principles:

- Chief characters of living organisms. Protoplasm-Structure and properties. Structure of cells (Amoeba as example).
 Cell division. Organisation of cells.
 Physiology of cells-Movement, Irritability, Respiration, Nutrition, Excretion, and Reproduction.
 Structure and Physiology of a multicellular organism *e.g.*, frog, treated in a general way.
 Evolution treated in an elementary manner.

1. *The body as an integrated whole :*

1. The whole body and its different systems.

2. The general framework of the body—Epithelial and connective tissues.

II. *The Erect and Moving body:*

1. The skeletal system.
2. The articulatory system.
3. Muscular tissue. Study of gross and microscopic structure of skeletal muscle.
4. The Physiology of muscle—irritability, Contraction, Muscle tonus, Chemical changes in muscle during contraction and recovery.
5. The skeletal muscles.

(a) Anatomical considerations.

1. The origin, the insertion, the nerve supply and the blood supply of a given muscle.
2. Its action.
3. The arrangement of muscles in groups.

(b) The main groups—the muscles which move the head, the back and loins—the muscles acting on the scapula, the humerus, the forearm, the hand, the femur, the leg, and the foot—the muscles of respiration

III. *Maintenance of the activity of skeletal muscle:*

1. (a) Composition and functions of blood, lymph and tissue fluids, Blood counts. Coagulation of blood.
- (b) The anatomy and physiology of the circulatory system as applied to:—the heart; the arterial system; the capillaries; the venous system; the pulmonary circulation vs. the systemic circulation; the factors concerned in the maintenance of blood pressure; the pulse and factors influencing it; the blood supply to active muscle.

Explanation of hyperaemia and ischaemia.

2. The anatomy and physiology of the Respiratory System:
 1. The anatomy of the thoracic cage.
 2. The anatomy of the lungs.
 3. The mechanism of respiration.

4. The control of respiration—nervous and chemical.
 5. External and internal respiration.
 6. Response of the Respiratory Centre to increased muscular activity.
3. The anatomy of the alimentary canal and its associated glands.
 The physiology of the alimentary canal. Movements;
 process of digestion; process of absorption.
 Nourishment of skeletal muscle.
 4. Effect of muscular exercise on the Respiratory and Circulatory Systems.

IV. *Metabolism of the body:*

1. Metabolism of carbohydrates, fats, proteins, inorganic salts and vitamins.
2. Waste products of metabolism—urea, uric acid, creatinine, and ammonium salts.
3. The Excretory system.
 - (a) The anatomy and physiology of the skin.
 - (b) The anatomy of the urinary tract.
 - (c) The physiology of the kidneys.
4. Regulation of body temperature.
5. Endocrine glands—Pituitary, thyroid, parathyroid, pancreas, supra renal and thymus.
6. Metabolic rate.

V. *Reproduction of the human body:*

1. Prenatal development of the body.
2. Male reproductive system.
3. Female reproductive system.

VI. *Integration and control of the body by the nervous system:*

1. The nervous system.
2. The nervous impulse.
3. The spinal cord.
4. The reflex arc.
5. The Brain—its parts and functions.

6. The cranial nerves.
7. The autonomic nervous system.
8. Sensory end organs and sensations.

Anatomy and Physiology—Practical

1. Microscopic study of—
 - (1) epithelial cells from the lining of the cheek and
 - (2) of any plant cell showing protoplasmic movement.
 - (3) Observation of amoeba and paramecium.
2. Simple dissections on frogs to show—
 - (a) viscera and their relations
 - (b) the circulatory system
 - (c) the urogenital system
3. Histological demonstrations —
 - (a) Simple squamous cells from the mouth—students to add nuclear stain.
 - (b) Stratified squamous epithelium.
 - (c) Histology of connective tissue—white fibrous connective tissue, cartilage, bone.
4. Study of the skeleton:
 - (a) Examination of the bones including external features and internal structure.
 - (b) Examination of different types of joints.
 - (c) Movements pertaining to these types.
5. Demonstration of gross and microscopic structure of skeletal muscle.
6. Demonstration of the muscle nerve preparation of the frog to show
 1. phenomenon of contraction
 2. phenomenon of fatigue.
7. Demonstration of main muscle groups in the cadaver.
8. Demonstration of surface anatomy on living body.
9. Blood:
 - (a) Examination of red cells.
 - (b) Examination of white cells.

- (c) Observation of coagulation of blood.
 - (d) Determination of clotting time.
 - (e) Estimation of Hemoglobin.
10. Circulatory system:
- (a) Anatomy of sheep's heart.
 - (b) Observation of heart-beat in the frog.
 - (c) Use of stethoscope to note human heart sounds.
 - (d) Circulation in the frog's web.
 - (e) Histology of medium sized artery.
 - (f) Pulse count (1) at rest, (2) after exercise.
 - (g) Demonstration of blood pressure determination in man.
11. Respiration:
- (a) Demonstration of anatomy of trachea and lungs in fresh specimen of sheep.
 - (b) Mechanism of respiration in Hering's apparatus.
 - (c) Measurement of vital capacity.
 - (d) Measure of minute ventilation (1) at rest (2) after exercise.
12. Digestion:
- (a) Observation of alimentary canal in the dissecting room.
 - (b) Observation of peristaltic movements in the frog's stomach.
 - (c) Observation in X Ray room of peristaltic movements after barium meal in human.
 - (d) Demonstration of glucose in intestinal digest of carbohydrate by Benedict's test.
 - (e) Study of portal system in the cadaver.
13. Excretory system :
- (a) Demonstration of urea in urine.
 - (b) Demonstration of gross and microscopic structure of the kidney.
 - (c) Measurement of volume of 24 hour urine.
 - (d) Histology of the skin.
14. Maintenance of body temperature :
- (a) Taking of temperatures at rest for six mornings.
 - (b) Taking of temperatures after heavy exercise.

15. Endocrine glands :

Demonstration of experimental animals of effect of injection of pituitary extract, pitocin, adrenalin, and insulin.

16. Determination of metabolic rate on a student.

17. Reproduction :

- (a) Study of foetus in the utero in the museum.
- (b) General anatomy of the male reproductive tract.
- (c) General anatomy of the female reproductive tract.
- (d) Microscopic appearance of the sperm and of the ovum.
- (e) Microscopic study of cell division.
Mitosis. Reduction division.

18. Nervous System :—

- (a) Demonstration of slides showing nerve cell and nerve fibre.
- (b) Dissection of the frog to show the main parts of the brain.
- (c) Demonstration of the parts of the human brain.
- (d) Dissection of the ox eye.
- (e) Study of a model of the bony labyrinth.
- (f) Demonstration of reflexes in man.
- (g) Snellen test type.
- (h) Tests for light touch appreciation.

Text-Book—Human Anatomy and Physiology by Millard and King, Publishing House. W. B. Saunders Company, Philadelphia and London, 1942 edition.

- Reference Books**—1. The Living Body by Best and Taylor, Chapman & Hall, Ltd., 11 Henrietta Street, W. C. 2, London.
2. The Machinery of the Body by Carlson and Johnson.

(3) CHEMISTRY & (4) PHYSICS.

Chemistry.

| | |
|------------|------------------------------|
| 120 hours. | { 60 hours. Theory lectures. |
| | { 60 hours. Laboratory work. |

Inorganic Chemistry—

Oxygen. Hydrogen. Water.

Physical and chemical changes.

Laws of chemical combination.

Atomic theory—development including elementary ideas on the structure of atom, etc.

Chemical nomenclature. Valency. Formulae. Equations.

Nitrogen, air.

Solutions, diffusion, osmotic pressure, colloidal solutions.

Acids, bases and salts. Ionisation.

Halogens: Sulphur, Phosphorus, Carbon, Silicon and Boron.

Metals and their salts. Sodium, Potassium, Copper, Silver
Calcium, Barium, Magnesium, Aluminium, Iron.

Organic Chemistry—

Hydro carbons and halogen derivatives.

Alcohols, ethers, aldehydes and Ketones.

Organic acids, esters, amines and aminoacids.

Cyclic Compounds.

Physiological Chemistry—

Carbohydrates—Fats—Proteins—Vitamins—Mineral Salts.

Chemistry of digestion—Metabolism.

Blood and lymph.

Urine and faeces.

Text-books:—

Fundamentals of Chemistry, Fifth edition. L. T. Bogert (W. B. Saunders Co.) The above is recommended as the text-book omitting Ch. XXVIII. (Endocrine glands and Hormones).

Laboratory Work:—

Selected exercises from Bogert's Laboratory Manual of Chemistry, 4th edn. (W. B. Saunders Company).

Physics.

24 hours. Lectures and Demonstrations.

Introduction.* Units and measurements—vernier.

Forces and motion. Levers, pulleys.

Gravitation, pressure and thrust. Density, specific gravity.

Atmospheric pressure—Barometer, pumps, pressure gauges, syringe, syphon, etc.

Elementary ideas of surface tension and viscosity.

Elementary principles and nature of heat, units of measurement.

Convection, conduction and radiation. Thermometers. humidity.

Lenses. Camera, eye, microscope.

General idea of sound—wave form. Interference of sound waves.

Stethoscope.

Nature of electric current. Laws of magnetism.

Electro magnetic induction. Units in electricity. Cells. Difference between A. C. and D. C.

Books of reference:—

Bodansky, Meyer. Introduction to Physiological Chemistry, 4th edn. John Wiley & Sons., Inc., New York, 1938.

Cameron, Alexander Thoma. Text-book of Biochemistry, 5th edn. Macmillan, 1938.

Findlay, Alexander. Spirit of Chemistry, 2nd edn. Longmans 1939.

Trevers, Charlotte and Morse E. E. Fundamentals of Chemistry and application. Macmillan 1939.

Kendall, James. Smith's Introductory College Chemistry. Appleton Century, 1938.

Kimball, Arthur L. College Text-book of Physics, 5th edn. Holt 1937.

Lynde, Carleton John. Everyday Physics. Macmillan; 1930.

Lowry, Alexander and Harrow, Benjamin. Introduction to Organic Chemistry, 4th edn. Wiley, 1936.

Norris, James Flack. Principles of Organic Chemistry, 3rd edn. McGraw Hill, 1931.

(5) MICROBIOLOGY AND PATHOLOGY.

Section 1—

General Principles.

1. General Lecture on Micro-Organisms.
2. Methods of Laboratory Study of Micro-Organisms.
3. Discussion of certain Micro-Organisms, molds, mildews, yeasts, penicillium, mushrooms; cocci, spirillum, rod-shaped bacilli, spore-forming rods.
4. Saprophytic bacteria; putrefaction; the septic tank; saprophytic infections; protection of wells from contamination; protection of foods from micro-organisms.

5. Distribution of bacteria in human beings. How bacterial infections spread.

Section 1—

Detailed Study of some of the important micro-organisms.

1. Pathogenic Yeasts—mode of growth, reproduction and dispersal.
2. Simple study of organisms causing thrush, blastomycosis, ringworm, ergot of rye.

Practical Work on the above Sections.

1. Demonstration of bacterial cultures, method of taking smear from a culture, staining it and examining it under microscope.
2. The correct method of taking smear from the throat of a patient; from the nose; from an ulcer; taking a blood culture.
3. Preparation and microscopic study of yeasts by students. Study of mold, *e.g.* *Mucor* under the microscope.
4. Demonstration of the organism causing ringworm.
The correct method of taking a slide of ringworm from a living person.

Section 2.—

Asepsis, Disinfection and Sanitation.

Disinfection and sterilization.

1. Definitions of disinfection and of sterilization. Discussion of the mechanism of each. Methods of sterilization.
2. Character of disinfectants, their strength, special uses of, as for example, disinfection of formites.
3. Bacteriostasis: definition and means of achieving.
4. The sterile field—asepsis—the nurse's responsibility.
5. Disease transmission and ward sanitation.
 - (a) Bacteria cast off from the body.
 - (b) Transfer of bacteria.
 - (c) Disinfection in infectious diseases; concurrent terminal, practical application to ward nursing

5. Food sanitation.—(a) Diseases caused by Bacteria in food *e.g.*, paratyphoid, botulism, staphylococcal infection, ptomaine poisoning (b) Protection against food infection and food poisoning as cleanly preparation of and cleanly serving of food, rigid control of milk, production, distribution, and rigid care in its use in the home; protection of household water supply; care of utensils concerned with food.

Practical work on Section 2.—

1. Demonstration of chemical disinfection.
2. Demonstration of sterilization of surgical linen.
3. Demonstration on wards of disinfection of excreta and of linen from a typhoid case.
4. Demonstration in the Operating Room of preparation of a sterile field.
5. Cultures for pathogenic bacteria from students' hands after a surgical scrubbing.
6. Practical Demonstrations in the ward of concurrent, terminal, disinfections.
7. Demonstration of plating from samples of milk.

Section 3.—

Infection Immunity, Allergy.

1. Infection:—(a) Portals of entry. (b) Virulence—variations in. (c) Toxins—exotoxin, endotoxin. (d) Viruses: small-pox, common cold, rabies.
2. Resistance, the defences of the body; (a) Mechanical—the coverings of exterior of the body and of the internal passages, and its secretions. (b) Inflammation. (c) Phagocytosis. (d) Antibody formation.
3. Natural immunity; definition, species immunity, racial immunity, individual immunity, active natural immunity compared with artificial immunity.
4. Antigens and Antibodies: definitions and examples; specificity of antibodies; amboceptors and complement; fixation of complement; Wassermann test; precipitins; agglutinins—use in diagnosis.

5. Artificial immunity; definition of active and of passive artificial immunity; method of acquiring artificial immunity by active method, as vaccination, Pasteur treatment for rabies, by use of dead bacteria, by use of bacterial exotoxins. Passive immunity; use of ready-made antibodies in therapeutic sera, *e.g.* tetanus antitoxin, diphtheria antitoxin, preparation of sera. Nature of passive immunity.
6. Hypersensitiveness: definition of allergy and anaphylaxis, with examples of each. Pollen allergy; food, bacterial, allergy. Test for allergy.

Practical work on Section 3.

1. Class volunteers to be submitted to the Mantoux Test and the results evaluated.
2. Demonstration of the Wassermann test.
3. Whole class to be inoculated against typhoid fever and agglutination reactions demonstrated before and after.
4. Demonstration of Widal test on suspected typhoid case.
5. Demonstration of anaphylaxis in the guinea pig.
6. Demonstration of serum rash or any example of allergy on the wards.
7. Demonstration of tests for allergy.

Section 4.

Introduction to General Pathology.

1. Definition of disease, pathology; classification of pathology as structural (gross microscopic) chemical, clinical.
2. Classification of five great pathological groups: degenerations, inflammations, infections, new growths, congenital malformations.

Simple definition of each state, with examples.

3. Degenerations; causes of, and degree of; the reaction of the body to degenerations.
4. Inflammations; the classical picture of a simple inflammation; abscess formation; phlegmon and lymphangitis.
5. Infections; local infections; bacteraemia *versus* septicaemia; sepsis.

6. New growths: benign *versus* malignant e.g., benign polypus, adenoma, lipoma; malignant carcinoma and sarcoma.
7. Congenital Malformations: examples of; the albino, the congenital heart.

Practical work on Section 4.

1. Demonstration of pathological specimens with the normal submitted for contrast (a) cor bovinum, (b) tuberculous knee joint.
2. Demonstration of pathological specimen showing examples of each main class; degenerations, inflammations, infections, new growths, congenital malformations.
3. Study of a gangrenous limb in the ward.
4. Inflammation in the web of the frog's foot or in frog's mesentery.
5. Careful study of gross pathology of an abscess; of a healing wound, non-septic.
6. Blood culture from a case of puerperal sepsis.
7. Study of wound infection.
8. Demonstration in wards on a lipoma.
9. Demonstration in wards on an adeno-carcinoma.
10. Demonstration in wards on a sarcoma.
Study of gross pathology of each with reference to the microscopic picture.
11. Any congenital malformations found in the wards.

(6) NURSING AND ALLIED ARTS.

I. *Orientation of the student to Nursing and the Nursing School.*

Definition of nursing; the purpose of all nursing; the spirit, ideals and desirable point of view and attitudes.

History of nursing showing how the modern conception has been derived from groups of health workers in the Pre-Christian period, from nursing leaders through the centuries to the present day.

Orientation of the student to the School of Nursing through the historical approach. The nursing schools of India as they are to-day, their history and development.

The students' place in the local school, its traditions, etc.

Relationship with fellow students, professors, clinical supervisors, etc.

Essential qualities in students of nursing.

Relationship of the school to the Medical College, to other colleges with which it may be affiliated and to the hospital.

Students of nursing and their relation to medical and other students.

Contribution of medical and nursing students to the medical training centre.

II. *Orientation of the student to the Hospital.*

Definition of a hospital. The functions of a hospital. The structure, situation and organisation of the hospital.

The students' responsibility to the nursing service of the hospital.

The students' relations with the medical and other staff of the hospital.

III. *Health.*

Definition of health (positive health of body, mind, spirit) appraisal of health and health needs.

The health approach in nursing, its importance and values—the responsibility of the nurse to be an example of healthful living. Individual health needs and adjustments with special application for the nurse in nursing situations.

The securing and conservation of health.

IV. *Control of the Environment.*

Health essentials in the environment. Influence of environmental factors on physical, mental and emotional state of the patient. Modifications of the environment in sickness.

Importance of ventilation, lighting and cleanliness.

V. *Care of the Environment.*

The ward unit, arrangement and equipment. Care of the ward and accessory rooms such as bathrooms, lavatories, linen rooms, kitchen, etc.

Care of equipment and supplies (*e.g.* beds, bedside tables, linen, mattresses, rubber goods, enamelware, glassware, etc.)

Disinfection of equipment and supplies. Special care of room and equipment after discharge or death of patient.

Care of food, refrigeration.

Disposal of waste. Removal of stains. Nurse's responsibility in maintaining cleanliness and order.

Preparation of various types of dressings, pads, bandages, binders, etc.

Wrapping of same for sterilization.

VI. *Providing for the Patient's personal needs.*

The patient as a person, assisting him to adapt to the hospital situation and routine.

Bed bathing and hair washing; routine morning and evening care, care of mouth. Treatment of pressure points. Care of hair, prevention of pediculosis, and treatment of same.

Bed-making for a patient who is not allowed to get up, changing of linen, lifting and rolling the patient.

Providing for elimination of excreta, routine giving of bed-pans and urinals.

Toilet of patient, removal of receptacle, inspection of contents, emptying, cleaning and disinfection of receptacles.

Feeding a helpless patient. Simple methods of artificial feeding by rectum, mouth and nose.

VII. *Providing for the Patient's Rest, Comfort and Recreation.*

Various positions. Methods of changing the position of a helpless patient. Importance of adjustment of pillows, sand bags, air rings, cradles, etc. Importance of introducing various types of handicrafts, literature, games for the patients. Adaptation of same to various stages of illness and to different types of personalities. Preparation of the patient for sleep. Use of the power of suggestion.

Massage, definition, history. Purpose in nursing. Use in relation to medication by inunction, use in connection with the patient's comfort and rest.

Methods, movements and technique of performing simple palliative massage. Exercises for patients while in bed.

VIII. *Observation and Recording of Symptoms.*

Importance of developing techniques of accurate, keen observation—Subjective and objective symptoms.

Temperature, pulse and respiration. Deviations from normal and principles underlying normal and abnormal conditions. Methods of taking, recording and reporting. Care of thermometers.

Charts, records and reports, use of and methods of writing up.

IX. *Physical Examinations and Diagnostic Measures.*

Necessity for presence of nurse, nurse's responsibility in assisting the patient and the doctor. Positions and draping.

Instruments necessary and their use, care of instruments.

Collection of specimens and despatch to laboratory; observation and recording in relation to specimens collected.

Recording of reports from laboratory.

X. *Simple Therapeutic measures.*

Local applications of heat and cold. Sponges, drainage, irrigation and medication of the colon (Enemata.) Vaginal douche. Irrigation and dressing of external genitalia.

Inhalations.

XI. *Bandaging.*

Definition, purpose and principles underlying the art of bandaging.

Types of bandages used such as roller, triangular, etc.

Kinds of bandages used as cotton, gauze, elastic, elastoplast, plaster, etc.

Methods of applying bandages to the various parts of the body and for the various purposes.

XII. *Admission and discharge of patient.*

Importance of the reception of the patient and helping the patient to adjust to the Hospital situation—removing fears and insecurity.

Preparation of bed, admitting bath. Observations of patient's condition and behaviour.

Care of clothes and valuables.

Preparation of patient for discharge and adjustment back to home situation, definite instructions for conducting of life during convalescence.

Closing of chart and transfer of chart to record room.

The duties of the doctor and the nurse to the dying patient.

The mental, spiritual and physical state of a dying patient.

How to relieve distressing symptoms of the various stages.

Care of the body after death. Last offices.

(7) PSYCHOLOGY.

Introduction.

(a) Definition of terms.

(b) Scope of Psychology; different types of psychology, psychological schools, and general scope of each.

The Physical Mechanisms of Human Behaviour (behind human behaviour.)

(a) The sense organs and their functions (A. & K. IV.)

(b) The Nervous System and its relation to behaviour (A. & K. V.)

(c) The Muscles and Glands (A. & K. VI.)

The Mental Mechanisms behind Human Behaviour.

(a) The levels of the mind (Psych. and Life Weatherhead IV.)

(b) The importance of the unconscious (Weatherhead V.)

The Regulation of Behaviour.

(a) The motivation of behaviour (A. & K. I, II, XIII & Weath. VI.)

(1) Physical factors.

(2) Mental factors (e.g., instincts, emotions, attitudes.)

(b) Conflict, Adjustments and maladjustments (A. & K. III.)

(c) Sentiment, will, imagination and confidence (Weath. VII.)

How to Learn.

(a) How to learn efficiently (A. & K. VII.)

(b) Further principles and conditions of learning (A. & K. VIII.)

(c) The individual learner (A. & K. IX.)

Behaviour in specific Life Periods.

(a) Psychology of childhood (Weath. X, A. & K. X.)

(b) Psychology of adolescence (A. & K. XI.)

(c) Adult Psychology (A. & K. XII.)

Mental Hygiene. (On being a real person, Fosdick, entire book.)*The Nurse as Practical Psychologist* (A. & K. XV.)*Texts.*Averill and Kempf: *Psychology applied to Nursing.*Fosdick: *On being a real person.**Suggested References:*Weatherhead: *Psychology and Life.*Adler, Alfred: *Understanding Human Nature.*Arlitt, Ada Hart: *Child from One to Twelve.*Hadfield: *Psychology and Morals.*Woodworth, Robert Sessions: *Psychology*, 4th. ed.**(8) MEDICAL AND SURGICAL NURSING.**

Introduction to Medical and Surgical Nursing.

The effect of disease on the body and mind—Tissue changes.

The process of inflammation and its resolution—Abscess formation, ulceration, sloughing and gangrene.

General and local infections (haemorrhage—Thrombosis Erysipelas, Cellulitis—Septicaemia—Pyæmia—Carbuncles).

Embolism—Shock—its causes and treatment.

Operative aseptic technique.

General principles of asepsis—Surgical cleanliness—Sterilization by heat and by antiseptics.

Pre-operative and post-operative care of patient.

Preparation of theatre with attention to light, heat and sound.

Preparation of equipment and of general instruments.

Anaesthetics and their effect—Dangers.

Spinal—General—regional—rectal, etc.—Nursing care of patients during and after anaesthesia.

Nursing in diseases of the Circulatory system.

Heart disease—Pericarditis—Myocarditis and Endocarditis—
Valvular diseases—Failure of compensation.

Symptoms and nursing treatment.

Blood transfusion—Blood grouping—Serum and plasma.

Diseases of the blood and lymphatic system—Leukaemia—
anaemias—Hodgkin's disease—Reynaud's disease—purpura.

Nursing in diseases of the Respiratory system.

Medical aspect of diseases of the tonsils—larynx—trachea—bronchi
and sinusitis—Bronchiectasis.

Surgical treatment of the same—Bronchoscopy.

Nursing care of above.

The Lungs—Pneumonias—Bronchial and lobar—Pleurisy dry and
with effusion, empyema—lung abscess.—Artificial pneumo-
thorax—thorascopy.

Nursing care of the above with reference to health teaching.

Knowledge of special equipment and instruments.

Position of the patient with special reference to drainage.

Diseases of the Gastro-Intestinal tract.

Preparation for X-Ray of alimentary tract. Knowledge of
Gastro-analysis.

Diseases of the mouth—throat and stomach—congenital deformities
of the mouth, *i.e.* Hare lip and cleft palate—operations and
nursing care of the same. Oesophageal stenosis—organic—
chemical or Traumatic. Carcinoma—peptic ulcers.

Operations on the stomach—Gastrostomy—Gastrectomy.

Gastro-enterostomy—Nursing care and feeding of such patients.

Diseases of the Intestinal Tract—Enteric fever—Dysentery—
Colitis—Herniae, appendicitis—Obstructions—Surgery of the
Intestinal tract.

Nursing care in diseases and after operations of the Intestinal
tract.

Operations on the colon, rectum and anus—Nursing care in the
same.

Diseases of the Urinary Tract.

Knowledge of Pyelography—Renal function tests and Cystocopy.

Diseases of the kidney—ureters and bladder—Calculi—Ptosis.

Operations of the kidneys—ureters and bladder—Nephritis—Hydronephrosis.

Nursing care in these cases.

Conditions of the musculo-skeletal system.

Fractures of the bones—types—knowledge of healing process.

Causes of fractures—Diseases of joints—Rheumatic fever—Gout—acute and chronic arthritis—Tuberculosis of bones and joints.

Surgical and medical methods of treatment.

Deformities of bones due to deficiency diseases.

Infantile paralysis.

Nursing care of Orthopaedic diseases—including traction on muscles—care of splints—plaster of Paris casing—diversional therapy and its value.

Rehabilitation of orthopaedic patients.

Diseases of the skin.

Diseases of the skin and their medical treatment—causes of same *e.g.* occupational—deficiency—allergic.

Burns and scalds—Skin grafting—Plastic operations.

Nursing care in skin conditions.

Erythema—Dermatitis—Herpes zoster—acne—scabies—ringworm—Impetigo—psoriasis—parasitic fingers.

Nursing in conditions of the Endocrine glands.

Myxoedema, Cretinism, Hypothyroidism in use of thyroid extract and iodine—Hyperthyroidism—Diabetes Mellitus.

Knowledge of insulin therapy and sugar estimation tests.

The education of the patient and relatives with reference to care of the extremities—Insulin dosage and use of glucose—diet and urine test for sugar.

Diseases of pituitary—Diabetes insipidus—Tumours of the pituitary gland—Gigantism and acromegaly.

Surgical and medical treatment and nursing care.

Diseases of the spleen—Nursing care after operation for splenectomy.

Para thyroid deficiency and Tetany. Pancreatitis.

Nursing in conditions of the nervous system.

Brain—Tumours—operative treatment and special nursing care.

Concussion—Fractures of base of skull—Apoplexy—Epilepsy—
Hemiplegia—Paraplegia—Special reference to positions of
patient—prevention of bedsores—dropfoot—treatment of urinary
complications.

Spinal cord and nerves—Tabes dorsalis—disseminated sclerosis—
neurites—sciatica—paralysis agitans.

Acute transverse myelitis.

Operation on the spinal cord and special nursing care.

Trigeminal neuralgia—Migraine.

Nursing in conditions of Eye, Ear and Nose.

Eyes.

Care of the eyes, with reference to hygiene and diet.

General nursing care of eye conditions—Trauma—foreign
bodies and use of magnet.

Cataract—Glaucoma—Iridectomy—detached retina—corneal ulcers
—Keratitis—Pannophthalmitis—Enucleation of globe.

Conjunctivitis—Bupharitis—lachrymal obstruction—trachoma.

Operation technique for eye surgery.

Effect of Vitamin 'A' deficiency on the eye.

Ear.

Care of the ears and dangers of syringing. Examination of ears.

Middle ear disease—Myringotomy—Mastoiditis, acute and chronic.

Antrectomy and radical operation for same.

Labyrinthine disease—complications of mastoiditis—Lateral sinus
infection—Deafness—Degeneration of the auditory nerve.

Nose.

Fracture of nasal bones—plastic operations—deflected septum—
Turbinectomy—Adenoids—Polypoid growths.

Pre-operative and post-operative care.

Deficiency diseases.

Prevalence in India—recognition of early symptoms—Beri-beri—
Osteomalacia—Rickets—Scurvy—Peripheral Neuritis—Anaemia
—Nursing care with special reference to diets.

The prevention of deficiency diseases in its public health aspect.

Allergic conditions.

Asthma—Urticaria—Hay fever—eczema—dermatitis.

Nursing care and the elimination of the allergic factor.

Tropical diseases—Knowledge of causative agents—treatment and nursing care in the following diseases—malaria—Relapsing fever—Plague—Cholera—dysentery—hydrophobia—ankylostomiasis—Kala-azar—leprosy—heat stroke—Filaria—Methods of prevention in the above diseases.

Communicable diseases—Nursing treatment and care of the following diseases with special reference and stress on the prevention of spread of disease—Measles—chickenpox—mumps—smallpox—Tuberculosis—Cerebro spinal meningitis—scarlet fever—encephalitis—diphtheria—syphilis—Gonorrhoea—Acute anterior Poliomyelitis, etc.

Diseases of the Liver and Gall bladder.

Jaundice—Catarrhal—infective and obstructive—Hepatitis—hepatic abscess—Carcinoma.

Biliary colic—formation of gallstones.

Nursing care in the above—with special reference to diet.

Clinical Pathology.

Note:—This section is recommended to be taught in the second term of the second year.

1. Definition of clinical pathology.
2. Study of the normal gastric contents. Variations in common diseases.
3. Study of the normal duodenal contents. Variations in common diseases.
4. Composition of normal urine. Variations in common diseases.
5. Study of gross and microscopic appearances of normal and of abnormal faeces—note parasitic worms and common diseases only.
6. Study of normal blood and of blood from anaemic patients with reference to main features of difference.
7. Composition of cerebrospinal fluid in normal and in meningitis.
8. Composition of body fluids; pleural exudate, ascitic fluid.

Practical work.

1. Demonstration of gastric analysis.
2. Individual class work on urine analysis and on the concentration test.
3. Individual class work on gross examination of faeces, normal and abnormal.
4. Demonstration of parasitic worms and their ova.
5. Examination of blood for haemoglobin by each class member.
6. Demonstration on wards of a lumbar puncture showing normal and on a second case, abnormal, cerebrospinal fluid.
7. Demonstration on wards of characters of (a) pleural exudate and (b) of ascitic fluid.
8. Demonstration of blood grouping.
9. Demonstration of test for serum sensitivity.

Reference, "Microbiology and Pathology for Nurses" by Morse, Frobisher, Rabin. Publishers—W.B. Saunders Company, Philadelphia. 1st Edition August 1942.

(9) NUTRITION

A study of the principles of normal nutrition and the principles and procedures in the care and preparation of foods; the requirements of an adequate diet for normal individuals.

Introduction.—Definition of nutrition; brief historical review of the development of the science of nutrition; the relation of nutrition to normal physical development and maintenance of sound health; food habits; diet in relation to racial stature and longevity; present-day methods of disseminating food facts; place, aim, and general content of nutrition courses in the nursing curriculum.

Energy Metabolism.—First essential of an adequate diet; how the energy value of the diet affects growth and development; Metabolism; definition; basal energy metabolism, factors which influence it; unit of measure, the calorie; total energy requirement, factors which influence it. Standards for infants, children, adolescents, adults during pregnancy and lactation. How the energy requirements are met. Foods rich in energy value. Carbohydrates; fats; composition and structure, nutritive value, digestibility, comparative costs.

Protein Metabolism.—Second essential of an adequate diet: adequate protein in quality and quantity to support growth and maintenance. Function of protein as body builder and promoter of growth; composition and structure; sources; requirements; methods of determining requirements; factors governing requirements. Standards for all groups. Effects of high and low protein intake. Foods high in protein content; nutritional value of different proteins; comparative cost; care of protein food products. Underlying principles of protein cookery.

Mineral Metabolism.—Third essential of an adequate diet: sufficient amount of mineral elements for normal metabolism. General function of mineral elements; the more important mineral elements—calcium, phosphorus, iron, iodine, copper, sodium, chlorine, manganese, potassium; sources; metabolism, functions. Standards for all groups. Foods rich in mineral content. Factors limiting utilization.

Vitamins.—Fourth essential of an adequate diet; adequate vitamin content to protect and maintain health. The importance of vitamins in regulating metabolism and controlling the processes involved in growth, maintenance, and reproduction. Experimental evidence. Historical review; isolation and measurement; functions; effects upon reproduction, lactation, growth and longevity; Vitamin A, B-complex, C, D, E, K, specific effects; sources and comparative costs; concentrates and comparative costs; requirements for all groups.

Water and Cellulose—Fifth essential of an adequate diet—provision of water and residue for regulatory purposes; importance in prevention of diseases and in promotion of optimum health. *Water Metabolism:* Functions; sources; requirements of various ages and conditions; water balance, hazards of an inadequate supply or retention of water; foods with a high water content. *Residue:* Cellulose, composition and digestibility, functions, food sources—foods with high cellulose content, factors which affect requirement.

Food Selection, Meal Planning, and Preparation for Individuals and Groups.—The sixth principle—digestibility, palatability and satiety; summary of five essentials of an adequate diet; general discussion of factors which influence digestibility, palatability and satiety. Effect of cooking and food preparation on nutritive value of foods. Balanced Diets for the family group; factors which influence food selection, family income level; composition of family group; occupation of adults; racial habits; religious practices. Factors to consider in menu planning—adequacy and cost of food in relation to

family budget, esthetic and psychological aspects, available equipment in the home. Factors to consider in food service.

DIET THERAPY.

A continuation of the study of Nutrition, with special attention to diet as a means of treatment of diseases. (It is expected that the instructor will work out the specific diets, under the following headings, keeping in mind Indian foods and diets.)

Diet Therapy in relation to Nursing in conditions of the body as a whole.

Introduction to diet therapy from historical standpoint; essentials of adequate diet as basis for all therapeutic diets; dangers of diet fads; general objectives of dietary treatment in disease; standard hospital diets; reason for choice of foods.

Diet Therapy in relation to Nursing in conditions of the Respiratory System.

Modification of diet in pneumonia and other fevers of short duration: to prevent dehydration—fluids increased; to spare patient unnecessary exertion—easily digested forms; to maintain a normal ketogenic/antiketogenic ratio—carbohydrates are increased.

Modification of normal diet in tuberculosis and other fevers of long duration.

Diet Therapy in relation to Nursing in conditions of the Gastro-Intestinal System.

Modification of the normal diet in diseases of the stomach; and duodenum.

Modification of the normal diet in diseases of the intestines.

Modification of the normal diet in diseases of the hepatic and cholecystic diseases.

Diet Therapy in relation to Nursing in conditions of the Skin and in Allergic conditions.

Modification of the normal diet in skin conditions.

Modification of the normal diet in allergic conditions.

Diet Therapy in relation to Nursing in conditions of the Endocrine Glands and Metabolism.

Modification of the normal diet in diabetes. Varied methods.

Modification of the normal diet in hyperinsulinism.

Modification of the normal diet in hyperthyroidism.

Modification in obesity; in underweight; in Addison's disease.

Diet Therapy in relation to Nursing in conditions of the Circulatory System, Blood and Blood-forming Organs.

Modification of the normal diet in cardiac diseases: in anemia; simple macrocytic, and pernicious anemia; in hypertension.

Diet Therapy in relation to Nursing in conditions of the Urinary and Genito-Urinary System.

Modification of the normal diet in nephritis; in nephrosis; in phosphoruria; in tuberculosis of the kidney and some types of stone formation; in pyelitis and bacilluria.

Diet Therapy in relation to Nursing in conditions of the Nervous System.

Modification of normal diet in epilepsy; in migraine.

Diet Therapy in relation to Nursing in Deficiency Diseases.

Modification of the normal diet in xerophthalmia, beri-beri, polyneuritis, scurvy, rickets, osteomalacia, pellagra, tetany, simple goitre, nutritional anaemia.

Diet Therapy in relation to Nursing in conditions of the Musculo-Skeletal System.

Modification of the normal diet in chronic infectious arthritis, in cases complicated by underweight; in static arthritis; in gouty arthritis.

Practice.

(10) HISTORY OF NURSING.

24 Hour Course in 6 Units.

Unit I.

Introduction to Nursing History including the pre-Christian period and earliest developments in India.

1. Introduction: Nursing as a vocation or profession; its relation to other fields of human experience; its relation to the medical profession as well as to other groups co-operating in the care.

of the sick and maintenance of health; the relation of nursing to other cultural interests; Nursing History as a part of general history and the effect of political, economic, social and religious conditions on the development of nursing; Its close relationship to the education of women, freedom of women etc.; Sources of material for Nursing History and methods of study.

2. Nursing in the primitive family and various social groups: Origin and roots of the nursing impulse; primitive and mutual aid in early family and social groups; medical practitioners; nursing in the family; origin of hospital in ancient custom of hospitality; superstition in relation to the care of the sick, aged, and helpless; evidences of early practices in Indian villages.
3. Nursing and health work in pre-Christian civilizations; Outstanding contributions of ancient civilizations including Indian, Egyptian, Grecian, and Roman; Development of ethical ideals in relation to charity, medical and nursing services, in the Ten Commandments, Hippocratic oath, and the Vedas.

Unit II.

Nursing as developed in the early Christian period including the mediaeval religious orders and military nursing orders.

1. Nursing in the early Christian era. The general state of the world at the time of the birth of Christ; the effect on the care of the sick of the new religion; organized groups of deacons and deaconesses, and widows; Roman matrons, Paula, Fabiola, Marcella; the ideal of asceticism; rise of Monasticism; development of nursing in monasteries; hospitals as an outgrowth of monasteries and the nursing and medical care in such hospitals.
2. Aristocratic and military influences: Feudalism with its outgrowth, chivalry versus the sheltered, contemplative life of the cloister; combination of chivalric and monastic ideals in the military nursing orders of the crusades; hospital expansion under knightly orders; Hospitallers of St. John as forerunners of the St. John's Ambulance Association of to-day; Distinctive contribution to nursing and to later Red Cross work of the romantic and knightly ideal.
3. Democratic and secular tendencies in mediaeval nursing: Changes in social and economic conditions following the crusades;

St. Francis of Assisi, a new type of religious and social leader; his work with lepers; St. Elizabeth and St. Catherine as types of nursing saints of this period.

Unit III.

Changes in Nursing and Hospital work from the 15th to the 19th century and early development of Hospitals in India.

1. Transition from mediaeval to modern era and resulting revolutionary changes. Changing conditions of political, economic, social, and religious life; influence of Renaissance on hospitals, medicine, and nursing; influence of protestant revolt and disestablishment of monasteries; extension of servant nurse system in civic and religious hospitals; deterioration in nursing and hospital work; new methods of scientific inquiry and discovery; improvements in medical science as the result of the work of such leaders as Bacon, Vesalius, Paracelsus, Harvey, Pare, and Sydenham.
2. Pre-Nightingale reformers in nursing and hospital work; Beginnings of modern humanitarian and democratic movements; reforms in nursing and charitable work introduced by St. Vincent de Paul, Mlle. le Gras, and Sisters of Charity; contribution of John Howard, Elizabeth Fry, Charles Dickens, and other humanitarian leaders; revival of deaconesses at Kaiserswerth by the Fleidners, pre-Nightingale efforts in England to establish new types of nursing service; influence of medical and sanitary reforms under Chadwick, Semmelweiss, Holmes, etc.; influence of new political, and social ideals and development of women's movement; development of Government hospitals in Madras and Bombay, etc.; military hospitals; conditions in India at the time of their development.

Unit IV.

The Founding of Modern Nursing and its spreading to other countries.

1. Florence Nightingale and her work; background of her times; her family and social heritage; her education and religious ideals; experience and training as a nurse; the Crimean war; her contribution to reforms in military medical service and civil hospitals; the founding of a nursing school at St. Thomas' Hospital; main features of the new system often much modified;

influence on ethical standards and on nursing principles and practice. Miss Nightingale's interest in India and her efforts to improve military hospitals and village sanitation; other contributions of Miss Nightingale, writings, sanitation, etc.

2. Contemporary movements (1850 to 1900) : New developments in medicine, surgery, and sanitary science as a result of the discoveries of Pasteur, Lister, Koch, etc.; reforms in public institutions such as workhouses and children's homes; founding of International Red Cross ; relationship of nursing and hospital reforms to these movements; development of government and mission hospitals and nursing in India during this period.
3. (Briefly) Survey of international nursing movements : effect of different cultural conditions and stages of development on nursing in different countries ; influence of historical and educational backgrounds on the modern situation ; how modern nursing came to different parts of the world ; relation to other movements, religious, cultural, military, public health, etc. ; expansion of nursing service ; movement for professional self-development ; influence of international contacts and organizations ; contribution of different countries to contemporary nursing movements ; some outstanding nursing leaders and professional publications.

Unit V.

Nursing in India.

Conditions in India which have affected the development of nursing ; development of education for women ; certain ideals, ethics, and spiritual life essential for nursing ; Nightingale ideals carried to India ; development of hospitals and their nursing services including mission hospitals ; methods of training and education of nurses ; state registration ; national nursing organizations ; military nursing organizations ; nursing publications ; establishment of postgraduate courses for nurses ; maternity and child welfare work ; Florence Nightingale Foundation Scholarship for nurses ; Indian Red Cross Association and its assistance to hospitals and nursing ; health visitors courses ; influence of present war conditions on nursing ; changing attitudes toward and concepts of nursing ; new emphasis on health nursing, nursing of the mind, nursing of the family and community, the nurse as teacher, etc.

Unit VI.

The Professional Heritage of the Nurse of To-day and her Responsibility for the Progress of Contemporary Nursing History.

1. (Briefly) Development of nursing as a profession; beginnings in mothercraft and mutual aid; nursing as a voluntary, neighbourly or patriotic service, a phase of religious service, a domestic handicraft, a secular vocation, and organized, independent, and self-governing profession; professional as distinguished from non-professional nursing; widening fields of service and extension of professional responsibilities; inter-relationships of nursing with other professional groups in medicine, social work, dietetics, education, etc.
2. Development of the science and art of nursing; gradual substitution of scientific principles for superstition and magic; progressive changes to be expected from advance in scientific knowledge and better application of science in nursing practice; development of nursing from a simple handicraft to a fine art; importance of creative intelligence and scientific investigation in the further development of the science and art of nursing.
3. Development of professional ideals and standards; beginnings in customs of family and other social groups; how influenced by different religious beliefs and practices, social customs, etc.; contributions to nursing ideals and traditions of monastic, medical, military, charitable and other groups; contribution of outstanding personalities of different periods in developing the spirit and ideals of nursing; modern trends in shaping and expressing nursing standards and ideals; increasing emphasis on individual self-discipline and responsible government by the professional group.
4. The future of nursing; opportunities for improving and extending the service of nurses; for developing a real education in nursing for nurses; for recognizing the need and preparing to care for India's millions of people even in the remote villages with a health and sick nursing service as rapidly as economic conditions, medical and sanitary groups, etc., are able to open the way; responsibility of each generation of nurses for preserving the best of the nursing heritage and adding to it; also for re-interpreting and re-adapting nursing principles, practices, and ideals to meet new social conditions and needs as they develop.

(11) MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS.

A nurse is not expected to prescribe. This is the privilege of a qualified doctor. As a nurse has to administer drugs in the treatment of cases, a general knowledge of drugs and substances which act as drugs in their relationship to the treatment of disease is essential. The fundamental requirements can be gathered if the student nurse is acquainted with the source from which they are obtained, their physiological actions and their final forms and appearances as prepared in the Pharmacy, by definite standard formulae for administration. The following syllabus may be taken as a guide :—

General Principles:—Scope of pharmacology; mechanism of drug action; absorption; distribution and excretion of drugs; factors modifying drug action; chemical classification of drugs; pharmaceutical preparations. Posology. Reading of prescriptions.

- I. *Drugs acting on the Central Nervous System*:—General anaesthetics with special reference to chloroform, ether, nitrous oxide, ethylene, bromethol.

Hypnotics, with special reference to chloral hydrate, barbiturates. Narcotic poisoning and its treatment. Opium and its derivatives.

Central stimulants with special reference to strychnine, picrotoxin, leptazol, nikethamide, Xanthines.

Drugs acting on Autonomic Effector cells: Acetyl choline and derivatives, eserine, atropine, adrenaline, ephedrine.

Local anaesthetics: Cocaine, procaine, amylocaine, nupercaine.

- II. *Action of Digitalis in Cardiac Disease: Nitrites*:—Solutions used in the treatment of shock: blood transfusions, plasma, colloid and crystalloid solutions. Haematinics.
 - III. *Diuretics* with special reference to Xanthines and mercury, alkaline and acidifying salts.
 - IV. *Ecbolics*:—Ergot, pituitary extract: sex hormones.
 - V. *Use of Expectorants*:—Oxygen and carbondioxide therapy.
 - VI. *Pharmacology of the Alimentary Canal*:—Emetics, bitters, antacids, purgatives, intestinal astringents.
- Anthelmintics with special reference to Filix mas, thymol, carbon tetrachloride, oil of chenopodium, santonin, diphenan.

- VII. *Antiseptics and Disinfectants*:—Oxidising agents, halogens, boric acid, phenol, cresol, chloroxylenol, dye products, metallic antiseptics.
- Skin irritants, counter-irritation.
- VIII. *Antipyretics*:—Phenacetin, phenazone, amidopyrin, salicylates.
- IX. *Metabolic Drugs*:—Thyroid, Insulin.
- X. *Chemotherapy* of (i) Malaria: Cinchona, pamaquin, Mepacrine.
(ii) Bacterial infections: sulphonamides, penicillin.
(iii) Syphilis: Arsphenamines, Bismuth, Mercury.
- XI. *Vitamins* in therapeutics.
- XII. Action and uses of sera and vaccines.

(12) HYGIENE AND PREVENTIVE MEDICINE.

(Note:—An elementary knowledge of the basic principles is alone expected.)

PART I—(II Year, Third Term, 36 hours.)

General :

The growth and development of the Science of Preventive Medicine; Modern trends in the Health protection of the individual and the community; Social Medicine—The development of a preventive bias in medical and nursing practice. The ideal Health organisation; the Health organisation in Madras Province; Health Surveys.

Nutrition and Health :

Signs of malnutrition; dietary surveys; Food poisoning; Food inspection; Sanitary control of preparation and sale of Foods; Meat and Milk sanitation; Restaurants, Bakeries.

Maternity and Child Welfare:

Maternal and Infant Mortality; Antenatal care; Midwifery services—Postnatal care—Domiciliary midwifery—Health Visiting—Infant and Child care—A complete Maternity and Child Welfare Organisation.

School Hygiene:

Sanitary requirements of School Buildings and equipment; Medical inspection of School children; School clinics; a Modern School Health programme.

Personal Hygiene:

Influence of heredity and Eugenics on Health; Mental Hygiene; Development of healthy habits; personal cleanliness; clothing; bathing; care of teeth; physiological aspects of exercise, fatigue and rest.

Industrial Hygiene:

A very brief consideration of the Health hazards in Industries and occupations and their prevention; The Industrial Welfare Nurse and her duties.

The role of insects in disease transmission:

Life-cycle and control of insect pests: Insecticides; Fumigation; the housefly; mosquito; fleas; bugs; lice; ticks; mites.

Communicable Diseases:

General: Sources and channels of infection—Bacteria; Viruses; Protozoa and worms; The Carrier problem; General methods of control of communicable diseases: Notification, Isolation, Quarantine, Immunisation; Disinfection: General principles of Epidemiology; Incubation and Infective periods. An elementary knowledge of the recognition, mode of spread and control of the following communicable diseases:—

Malaria, Filariasis, Yellow Fever.

Kala azar.

Relapsing Fever and Typhus Fever.

Plague.

Cholera; Enteric Fever; Dysentery.

Small-pox; Chicken-pox; Measles.

Mumps; Whooping Cough.

Influenza; Diphtheria; Cerebrospinal Fever.

Tuberculosis; Leprosy.

Venereal diseases.

Rabies; Anthrax.

Scabies.

Round worm; hookworm; guinea worm; tapeworms.

PART II—(III Year, First Term, 24 hours.)

Sanitation of the environment :

Dangers to health arising from insanitary surroundings; Sanitary methods of collection and disposal of Refuse and Nightsoil in Villages and Towns; Compost; Trenching; Sanitary types of privies; borehole latrine; The Water Carriage System—Methods of disposal of Sewage and Waste Waters; Disposal of the dead.

Village Sanitation; Sanitation of Fairs and Festivals; Hospital Sanitation.

Water Supply and health :

Sources; impurities; pollution; Water-borne diseases; protected water supply schemes for Rural areas and Towns; wells; Tube wells; bore wells; Water purification—domestic and large scale methods; Water softening; Filtration; Chlorination.

Air and Ventilation :

Composition of outdoor and indoor Air; Vitiating of air, causes of discomfort in crowded rooms; Kata thermometer; Methods of Ventilation; requirements of Floor and cubic space; Air conditioning.

Buildings—Sanitary construction; prevention of dampness.

Vital Statistics :

Registration of Births and Deaths and the need therefor. Population; Census; Birth and Death Rates; Case Fatality Rate; Infant and Maternal Mortality Rates; the usefulness of these data as a measure of Health conditions.

Health Legislation :

Obligations under the Public Health Acts.

Note:—The lectures will be illustrated by visits to places and institutions of Public Health interest.

(13) GYNAECOLOGICAL AND OBSTETRICAL NURSING

(60 Hours).

A. GYNAECOLOGICAL NURSING (35 Hours).

Unit I. *Review of the Anatomy and physiology of the female reproductive organs:*

Structure, blood and nerve supply, etc. Physiology.

Unit II. *Mental and social significance in Gynaecological conditions and diseases:*

Psychological approach to the patient. Hygiene of puberty, adolescence and menopause.

Personal and Public Health aspects.

„ III. *Examinations and diagnostic Measures.*

Nurses' special responsibilities in assisting the doctor and the patient. Positions and draping. Instruments and appliances necessary.

„ IV. *Gynaecological disorders and diseases:*

Abnormalities of Menstrual cycle; dysmenorrhea, amenorrhea, etc. Displacements and relaxations; prolapses, cystoceles, etc.

Inflammations and infections; vulvitis, vaginitis, salpingitis, etc. Growths; benign and malignant.

Congenital abnormalities; absence of uterus and adnexa, infantile genitalia, atresia of vagina, etc.

Abortion, ectopic gestation, artificial and premature menopause.

Nursing care of :

V. *Therapeutic measures:*

Treatment, operations, medications and diets.

Pre-operative, operative and post-operative care.

B. OBSTETRICAL NURSING (25 Hours)

Unit I. *Reproduction:*

Anatomy and physiology of reproduction. Development of embryo, Sex education. Birth control and spacing. Costs and reducing costs of reproduction. Morbidity and infant and maternal mortality.

„ II. *Nursing in pregnancy:*

Normal pregnancy, signs, etc. Complicated pregnancy. Antenatal care, medical and nursing.

„ III. *Nurses' responsibilities and duties during puerperium:*

Normal puerperium, physical and mental adjustments of the patient.

Involution, lactation, etc.,

Complicated puerperium, causes, symptoms, prevention and treatment for all abnormal conditions.

Unit IV. *Care of the Newborn:*

Adjustments to the environment. Nursing care of normal infant.

Feeding, breast and artificial.

Symptoms of complications and diseases and nursing care in :

Instructions to the mother.

(14) WORLD HISTORY.

One year Syllabus on World History.—The Syllabus is divided into three parts, corresponding to the three terms of the year. Each part is divided into ten weeks in order roughly to indicate the relative amount of detail required for the subjects mentioned. The allocation of the material under a scheme of two lectures a week is indicated by (a) and (b).

PART I.

1 (a) *World Geography.*—General features from the standpoint of human geography. Areas inhabited by pre-historic man.

(b) *Pre-historic Man.*—Tools. Language. Art. Cultivation. Religion. Wanderings.

2. *Chief Features of Ancient Civilisations.*—(a) Mesopotamia. Indus Valley. Egypt. (b) Aegean. China.

3 (a) *Great Empires of the Ancient World and their rivalries* Egypt. Assyria. Persia. (b) *China* up to the collapse of the Han Empire.

4 (a) *India* up to the end of the Gupta Period. (b) *Greece* : i. City-States. Democracy. Persian Wars. Pericles.

5. *Greece* (contd.). (a) ii. Peloponnesian War. Alexander.

(b) iii. Greek way of life.

6. *The Roman Empire.*—(a) City-State to Empire. Organization, political and economic. (b) Christianity and the Christian Church.

7. *Mediaeval Christendom.*—(a) i. Break-up of the Roman Empire. The Church. Feudalism. Charlemagne. The Holy Roman Empire.

(b) ii. The Mediaeval Church: Position of the Pope. Other aspects of the Church.

8 (a) *Mediaeval Christendom* (contd.). iii. Political characteristics of Mediaeval Europe. Feudal Monarchies; Magna Charta; Corporations; Representative Institutions. (b) *The Contemporary Asiatic World*. i. Islam.

9 (a) *The Contemporary Asiatic World* (contd.). ii. The Mongols. The Moghuls. The Ottoman Turks. Advance of the Turks into Europe.

(b) *Life of the Common People*.—Comparison on broad lines between Mediaeval Europe, Islamic World, India, China.

10. *The New Age in Europe*.—(a) Renaissance. (b) Reformation.

PART II.

1. (a) *Nation-States; Dynastic power-politics*.—The New Monarchy: Spain; France; England. Dynastic Power-Politics: Hapsburgs; Richelieu. (b) *Types of Monarchy*: King and Parliament; Louis XIV; Frederick II.

2 (a) *Central and Eastern Europe*.—Russia. Poland (Partitions). Danube Basin.

(b) *European Expansion overseas*: i. Voyages. Trade Settlement.

3 (a) *European Expansion overseas* (contd.). ii. Conquest. Rivalries. Map of the World 1763. (b) *Revolution*: American War of Independence. American Democracy. French Revolution: Causes.

4 (a) *French Revolution* (contd.). Course. *Napoleon*: Scope of conquests; principles of Government; reasons for failure.

(b) *The 19th Century*.—The settlement of 1815. Nationalism and Liberalism in the first half of the 19th Century.

5 (a) *The 19th Century* (contd.). Italy. Smaller nations as types of Democracy.

(b) *19th Century Industrialism in Europe and America*.—Industrial Revolution. Banking. Condition of the workers. Trades Unions.

5 (a) *Industrialism* (contd.). The Women's Movement. Humanitarianism. Developments in Europe and America paralleled by later developments in India.

(b) *U.S.A. i. Expansion. Relation to her neighbours. Civil war.*

7 (a) *U.S.A. (contd.). ii. Middle West and West. Big Business. Monroe Doctrine. Ideal of Liberty. Immigration.*

(b) *Capitalist Power-Politics.*—Creation of modern Germany by Bismark. Austria-Hungary and S. E. Europe.

8 (a) *Rival European Interests.*—The Mediterranean and N. Africa; the partition of Africa; the Far East and the Pacific; German ascendancy in Europe; German hopes; British Empire: Extent; Types of Government; British Sea Power.

(b) *The New Age of Industrialism and Nationalism in the East.*—Japan. China.

9. *The New Age in the East. (contd.). Modern India. (a) Economic, Social; (b) Political.*

10. *The War of 1914-18. (a) Causes. Brief review of course. (b) World Survey 1918.*

PART III.

1. *Post-War Settlement 1918-24.*—(a) Summary of treaties. Political Geography of the world. (b) World communications. World economic Geography. World Strategic Geography (Naval and Air Bases).

2. *General results of the War of 1914-18.*—(a) Advance in Technical power and medical Science. Psychological condition of combatant countries. (b) "Self-determination". Minority problems. Social problems and experiments. Party uniforms. League of Nations: structure and aims.

3 (a) *Russia, 1917-1939.*—Revolution. Lenin. The communist State. Planning. Stalin. (b) *Other one-party States and Dictatorships.*—Conditions which produce dictators. Chief characteristics of dictatorship. Mussolini.

4 (a) *Dictatorships (contd.). Hitler. Kemal. Franco. Other Dictators.*

(b) *The Democracies, 1918-1935.*—Interior conditions: England; The Dominions; France.

5 (a) *The Democracies (contd.). U.S.A.; Czecho-Slovakia; other small nations. The Democracies and the Dictators: international relations.*

(b) *The Axis*.—Italy—Germany—Spain—Japan. Spheres of action: Abyssinia; Mediterranean; Spain; Manchuria; China; S. America.

6 (a) *The Axis* (contd.). "Greater Germany": Hitler's Aims; Austria; Czecho-Slovakia; Poland; Germany's attitude to France; Great Britain; Russia.

(b) *The War 1939*.—Causes. Issues at stake. Attitude of Russia and America in 1939. Position of India.

7. *The War* (contd.). (a) German triumph 1939-1942. Britain. Russia. (b) General strategy of the War: Air-power; sea-power; economic power. Eastern Mediterranean and Middle East. Japan and China.

8. *The War* (contd.). (a) Japan and the Pacific. Situation of India. U. S. A. and the War. (b) The turn of the tide. Course of the War 1942-45.

9 (a) *India since 1939*.—Strategic position. Political deadlock. Economic changes.

(b) *Factors in the future world situation*.—Technical developments. Population problems (Refugee problem; minorities). Rehabilitation of shattered countries.

10. *Outlook for world co-operation*.—(a) Historical retrospect. Various forms of unity. Development of world communications. World economics. The League of Nations: its achievements (Political, economic, social; the I.L.O.); reasons for its failure. (b) New Hopes and Fears; Present day unions; alliances; examples of international co-operation (e.g., U.N.R.R.A.) and plans for the future. India's angle of approach to world problems.

Suggestions for Books.

In each case the latest edition should be used.

Note: A single asterisk * against a book indicates that it is recommended for students, and a double asterisk ** indicates that it is specially recommended both for teachers and students.

** R. Flenley & W. N. Weech { World History. The Growth of Western Civilization. (Dent, 1936.)

* H. A. Davis: An Outline History of the World. (O.U.P. 1939.)

* F. G. Pearce: Footprints on the Sands of Time. (O.U.P. 1943.)

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|---|---|---|
| Rhoda Power: | Great People of the Past. (C.U.P. 1932.) | |
| Hutton Webster: | World History. (D.C. Heath & Co., 1925.) | |
| H. G. Wells: | A Short History of the World. (Cassell, 1922.) | |
| F. S. Marin: | The Living Past. (Clarendon Press 1913) | |
| Breasted: | Ancient Times. (Ginn & Co. 1920.) | |
| M. Deanesley: | A History of the Mediaeval Church. (Methuen.) | |
| Oxford Pamphlets on World Affairs. O.U.P. | | |
| Stembridge: | The World Geography. O.U.P. 1939. | |
| Ramsay Muir & George Philip | { Philip's New School Atlas of Universal History. | Philip's & London Geographical Institute, 1939. |
| J. F. Horabin | { Atlas; European History (2nd—20th Century.) | Gollancz. |
| ..... | Atlas of Current Affairs. | „ |

(15) NURSING OF CHILDREN

Unit I

Normal growth and development of the child:

Infant at birth.—Adjustment to new environment from the seclusion and protection in utero to the world of unstable temperature, light, noise and movement. Bathing, clothing of the infant. Importance of establishing regular habits from birth, both from the point of view of physical needs and to give the child a sense of security necessary for stability in later development. Increase of weight.

Stages of development of the infant.—Physical and psychological needs of each stage. (1) Feeding, sleep, warmth, security. (2) The ideal environment. (3) Focussing ability. (4) Movements of limbs. (5) Play instinct. (6) Habit crying, causes and its prevention.

Early childhood.—Development of good habits in sleeping, eating, defecation and micturition. Fostering of good habits retards the development of bad.

Development in later childhood.—Physical and psychological needs. Nervousness, its causes and prevention. Methods of employing

the child. Stability and instability. Causes of instability and its prevention. Social development and orientation to the family. Other contacts. Adjustment to school.

Early adolescence. Nervousness. Self-consciousness. Self-display. Physical and mental hygiene during puberty. Process of maturation: review of physical, mental, emotional and social development traced from infancy through adolescence to re-emphasise interdependence of phases of development and the gradual nature of maturation.

Unit II

Nutrition of Infants.—Composition of human milk. Comparison with other milk, cows, goats. Breast feeding, its advantages. Contra indications for breast feeding. Methods of modification of milk. Methods of sterilisation. Addition of carbohydrates, protein, vitamin content. Calculation of amount according to weight and rapidity of growth. Feeding of premature infants. Education of the digestion. Regularity in feeding. Regulation of feeding. Weaning. Dried milks—advantages and disadvantages. Their formulae. Methods of preparing and keeping.

Special nutritional requirements of the growing child.—Mineral salt content. Relative proportion of protein content in the diet to that of adults. Prevention of deficiency diseases.

Unit III

Orientation to the nursing of children and to children's division of hospital.—Adaptation of nursing methods and procedures to children. Hours of sleep, rest, recreation. The reaction of the child on admission to hospital. Methods of securing co-operation of the child for examination and treatment. Securing co-operation of parent. Fretfulness, loss of appetite, sleeplessness. Convulsions, constipation. Importance of acute observation of habits deviating from the normal. Methods of locating pain. Postures assumed by the sick child. The child in convalescence.

Introduction to the children's division.—Admission of the child. Relationship with parents. Care of clothing. Clothing of child. Reasons for separate division; adaptations and additions essential for a suitable environment. Types of cots. Pictures, books, toys. Children's dining room. Individual bed unit. Facilities used in common; provisions for isolation and safety.

Unit IV

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Nursing in diseases of infancy and childhood. General characteristics of child compared with adults. Defence against disease. Differences in manifestation of disease. Effect upon physical and mental development. Provision for education in chronic diseases during school period.

Abnormal conditions and diseases of the new born.—Icterus Neonatorum, Icterus Neonatorum Gravis, Pemphigus, Facial Paralysis, Erbs Paralysis, Tetanus, Melena Neonatorum, Congenital Syphilis, Thrush, Exomphalos, Anaemia of the new born, Spina Bifida. Hare lip and cleft palate.

Diseases of the upper and lower respiratory tract.—Adenoids, Tonsillitis, Laryngismus Stridulous, Bronchitis, Bronchopneumonia, Lobar Pneumonia, Pleurisy, Pleural Effusion, Empyema. Tuberculosis, Asthma.

Diseases of Nutrition.—Vomiting, Habit vomiting, Diarrhoea Scurvey, Rickets, Celiac disease, Beri-Beri—Anaemia, Night-blindness.

Abnormal conditions and diseases of the gastro-intestinal tract.—Indigestion, Colic, Intestinal parasites, Constipation, Abdominal Tuberculosis, Hernia, Congenital Pyloric Stenosis, medical and surgical treatment of same. Appendicitis, Imperforate anus, Imperforate rectum, Intussusception, Dysentery. Hirschsprung's disease.

Diseases of the heart and circulatory system.—Endocarditis, Pericarditis, Congenital heart disease.

Abnormal conditions and diseases of the blood.—Anaemia, Leukemia. Purpura. Hemophilia.

Diseases of the Genito Urinary System.—Nephritis, Pyelitis, Vulvovaginitis, Enuresis. New growths—Hypernephroma.

Diseases of the lymphatic glands.—Adenitis, Tuberculous adenitis, Lymphangitis, Lymphadenoma.

Diseases of the glands of internal secretion.—Diabetes mellitus, Diabetes insipidus, Hyper Thyroidism, Imbecility, Parathyroid deficiency. Tetany.

Communicable diseases.—Measles, chickenpox, smallpox, whooping cough, Rubella, Mumps, Pulmonary Tuberculosis.

Diseases and disturbance of the nervous system.—Mental deficiency, Mongolian imbecility, Convulsions, Epilepsy, Hydrocephalus, Cerebro-spinal meningitis, Anterior Poliomyelitis, Meningitis, T. B. Meningitis, Head nodding and Nystagmus, Chorea.

Disorder of the eye, ear and nose.—Foreign bodies, Conjunctivitis, Blepharitis, Ophthalmitis, Squint, Errors of Refraction, Corneal Ulcer, Trachoma, Mastoid Infection. Foreign bodies. Middle ear disease.

Diseases and conditions of the skin and hair.—Dermatitis, Impetigo contagiosa, Tinea, etc. Pediculosis, Alopecia, Scabies.

Diseases of the bones and joints—Deformities.—T. B. of Spine, and Joints. Congenital deformities, Torticollis, Talipes:

Equino Varus
Equinus
Calcaneus, Valgus

Congenital dislocation of hip.

Trauma—wounds, contusions.

Fractures, Rheumatism, Arthritis.

Allergic conditions.

New growths.—Sarcoma.

(16) PUBLIC HEALTH NURSING.

The Public Health Nursing Movement:

Earliest developments in the home and community. Beginning of the modern Movement in England, spread to America, development in the United States of America, later developments and spread throughout the world.

Principles, Education and records:

Basic principles of Public Health Nursing. Education for Public Health Nursing, undergraduate and postgraduate.

Records and statistics.

Organization of Public Health Nursing Services in various countries:

Under private agencies, organization, functions of the board, officers and committees of the board of agency.

Under Governmental agencies, organization on provincial and central basis, municipal or village basis.

The situation in India to-day—health visitors and their work

The Nurse in the Public Health Nursing Service:

Personal, educational and professional qualifications for successful public health nurse. The public health nurse working alone in a rural community, working on an urban staff with others. Supervision and administration in public health nursing service. Staff leadership and education.

Scope of Public Health Nursing Services:

Maternal and child Health work.

School and Industrial nursing. Communicable disease nursing in homes.

Health education. Mental hygiene.

Public Health Nursing Services in India:

Creating a community consciousness of health needs and the development of a Public Health Nursing service, problems involved, pack nurses, use of voluntary workers. Financial support and type of control, public or private.

(17) ADVANCED NURSING.

Methods: Unit I and III—Individual conferences and Seminars.

Unit II—Class lectures and demonstrations.

Unit I. Special types of Experience:

Assignment of student to specific types of experience which have been less well covered and which involve nursing problems of greater difficulty than those previously met with, special procedures and therapeutic measures and special dietary as well as involving special psychological or other factors which complicate the nursing situation.

„ 11. *First Aid and Nursing in Emergencies:*

Special stress on emergencies outside the hospital environment. The subject matter of St. John Ambulance First Aid Course not previously covered (*e.g.* Anatomy and Physiology fully covered). Emergency Nursing as is necessary in disaster service and as practiced in Red Cross emergency nursing service.

Unit III. Selected problems such as :

1. Study of the rural health situation, problems, needs and resources, trends and possible developments.
2. Study and review of reports of Public Health Commissions.
3. Public Health as relating to Vital Statistics.
4. Study of nursing needs of patient with selected type of chronic illness in the home of other selected problems and studies.
5. Slum conditions.

(18) COMMUNITY HEALTH AND SOCIAL NEEDS.

In the Urban and Rural Community and among all classes.

Unit I. The Nurse in the Community:

The family as the social and health unit of the community.

Influence of social customs and conditions on health and disease.

Community resources for prevention of disease, promotion of health and social well-being.

The nurse's approach to the family, appreciation of health work and its possibilities and values.

Means whereby the nurse may assist the family in the care of the sick in the home and in their health needs; teaching the family how to care for the sick, the adjustments of the members of the family, instructions in diets, budget and daily work schedules, reconstruction, training of children, etc. How to get and keep health.

„ II. Social needs and resources of the Community:

Social needs and current social problems which affect health.

Essential conditions that every family may develop normally, establish and maintain itself in health and on a reasonable level of living.

Educational and recreational facilities and the assurance of security in illness and old age.

Community resources to meet the needs, solve the problems and ensure growth, normal development and healthy life.

Unit III. Health needs and resources of the Community:

Current health problem. Conditions essential to securing and maintaining health, safeguarding growth and development, protection from infectious diseases. Medical and Nursing care as essential to well-being of the community.

The available resources; Department of Public Health, Red Cross private agencies, health legislation.

Water, milk and food supplies. Disposal of waste, housing, etc.

IV. Health and Social Legislation in India and other Countries:

Study of legislation already enacted in this sphere.

Effect of social legislation on health, labour laws, provision for aged, widows, mothers, crippled children and adults, blind etc.

Effect of Health Administration and health education on social progress.

Trends and future development.

(19) WARD TEACHING AND ADMINISTRATION.

Purpose and aim of the Course:

- (1) To give an introduction to ward administration and teaching adequate to prepare the young graduate to enter effectively into the programme of the Hospital Nursing Service and the School of Nursing.
- (2) To improve the ward teaching and increase the value of the clinical experience student nurses receive.

Unit I. Ward Administration.

Hospital organisation, types of hospitals—the hospital board, its composition and duties. Department organisation with special reference to the Nursing Department. Lines of authority, delegated authority and responsibility.

The work on a ward, nursing service and nursing and medical education, health teaching. Standards for staff equipment, etc. The fundamental principles of administration, the personality and characteristics of a good administrator.

The Functions of the Sister in charge of ward "as a hostess, as a nursing expert, as a practical sanitarian, as a housekeeper and steward, as an economist, as a junior executive, as a teacher of patients and personnel".* Her responsibility for the professional growth and development of all who work with her.

Unit II. Ward Teaching:

How we learn, readiness, mind-set, effect, exercise, association, forgetting and over-learning.

Planning a ward teaching programme—The interrelation of ward experience, ward teaching and classroom teaching. Aims and objectives of the ward teaching programme, selection of content, teaching aids, the ward library. •

Methods of ward teaching, work assignments, conferences, Nursing demonstrations on the wards, ward rounds, nursing clinics, nursing care plans, nursing care studies.

The problem of the individual student, evaluation of work, stimulating interest, encouraging initiative, teaching students to set standards for themselves and evaluate their own work.

Some Text and Reference Books advised:

Mac Manus: "Hospital administration for Women".

Wayland: "The Hospital Head Nurse".

Sellew: "Ward Administration".

Jensen: "The Principles and Practice of Ward Teaching".

Taylor: "Ward Teaching Methods of Clinical Instruction".

Harmer: "Methods and Principles of Teaching the Principles and Practice of Nursing."

(20) PROFESSIONAL OPPORTUNITIES AND ADJUSTMENTS.

Aim and Purpose of the Course:

- (1) To help the student understand the professional responsibility she will have as a young graduate nurse, to herself, to her profession and to society.
- (2) To help the student get an all-India view of the health and nursing situation and the problems which confront her profession.

* Wayland "The Hospital Head Nurse"

- (3) To give a bird's eye view of the various fields of nursing open to nurses and the qualifications essential for the main branches.
- (4) To study the trends in nursing development and nursing education, both abroad and in India.

Unit I. The nurse and professional organisations:

The Nursing Councils, registration, reciprocity, legislation in nursing. The Trained Nurses' Association of India, the Nursing Auxiliary of the C.M.A. Indian Red Cross. Indian Military Nursing Service, International Council of Nurses.

Unit II.

The responsibility of a Nurse for her own continued professional growth, her reading, the nurse as a writer, choosing a position, applying for a position, resigning from a position. Post-graduate study for the nurse.

Unit III. The Health situation in India to-day:

A consideration of the health problems of the country and attempts that are being made to meet them. Malaria, leprosy, tuberculosis, venereal diseases, maternity and child welfare, School health, industrial health problems. Rural health—economic factors in national health—health education, the method—preventive medicine, the responsibility of the nurse. Problems in the local community, the problems of the villages.

Unit IV. Fields of Nursing:

Hospital nursing, private duty, rural fields, maternity and child welfare, school nursing, industrial nursing; tuberculosis nursing, leprosy nursing, mental nursing, government services. Things to be considered when selecting a field.

Unit V. Trends in Nursing and Nursing education in India and abroad:

Trends towards an emphasis on building health and preventive measures, the development of public health services. Trends towards uniformity of standards, Trends towards considering the needs of all people. Recent developments in health and nursing services, their significance and a summary of present day problems and probable future developments.

Some Text and Reference Books suggested :

- Spalding : Professional Adjustments in Nursing II.
 Gabriel : Professional Problems.
 Hansen : Professional Relationships of the Nurse.
 Gardner : Public Health Nursing.
 Wales : The Public Health Nurse in Action.

(21) SOCIOLOGY.

(24 Lectures)

Introductory Course : II Year.

In this part of the course attempt is made to acquaint the student with the evolution of society, its basis and structure, the forces operating within it, the nature of social change, and factors and methods of social reconstruction.

1. Enquiry into Indian social conditions and examination of their effects—such conditions as malnutrition, marriage of the immature, ignorance, disease and squalor.

2. Importance of the study of sociology. Sociology as a synthesis of social sciences. Its relation to Anthropology, Biology, History, Economics, Politics and Law.

3. The origin and evolution of society—primitive society, the clan and the tribe. Patriarchal and matriarchal societies. Kinship, adoption, and marriage. Exogamy and endogamy. Caste and race.

4. Society and the individual. The value of individual personality. The democratic basis of the society. Importance of the individual in Hindu, Muslim, and Christian literature. The individual as an isolated unit *vs.* the socialised individual. The individual in the midst of social relationships, together with social rights and responsibilities as the unit of our thought and discussion. Social harmony and social disruption.

5. Social groups and social institutions. Uses and abuses of social groups. The family, caste and communal groups. Economic groups, such as, trade unions. Racial groups. The idea of a world society.

6. The nature of social change and the meaning of social progress. Social change in Hinduism and Islam. Social change in daily life. Social change in the city and village. Factors of social change.

Social logs. Culture contacts and fusion. Culture contacts and friction.

7. Principles and methods of social reconstruction. Philosophy of society. Social reconstruction promoted by state action, by public opinion through the press, platform, cinema, and radio, by welfare organisations, educational institutions, the home, and personal example.

8. Social Psychology—The meaning of group mind. The group as an entity. The crowd and society. The meaning of community. Instinct, custom, tradition, and reason in their relation to social progress.

IV Year (72 lectures).

In this part of the course, attempt is made to acquaint the student with the causes and the cure of the main social problems of our day and the machinery for social improvement.

1. Social survey—Study, investigation, report, recommendations, machinery for the carrying out of recommendations, and check-up. The importance of case study. Some important social studies—Booth and Rowntree. American studies, such as, the Russell Sage Foundation studies. Famine commissions in India.

2. The case for the trained social worker. His equipment. Spheres of social rehabilitation where the trained worker is needed. The nurse and community services. The nurse as the friend of the people in health or sickness; as teacher and social worker; as the protector and promoter of public health.

3. The problem of poverty and dependency. The nature and extent of poverty in India. Causes of poverty and their removal. Social, economic and political remedies. Overpopulation. The truth and falsity of Malthusian theory. Birth and death rates in India. Comparison with other countries. Malnutrition and changes in national diet.

4. Harmful social customs and their removal. Caste exclusiveness and untouchability. Modification of the rigours of caste by state and social action. Marriage of the immature and marriage practices. Close in-breeding and its consequences. The purdah. Eugenic and hygienic practices. Legal disabilities of women in Hindu and Islamic society. The Hindu Law amendment. Polygamy and polyandry and attempts at their abolition. The law of divorce in

India. Limitations of the joint family system. The dowry. Inheritance.

Prostitution—its incidence in cities. Migration of population, overcrowding, disparity in sexes among the labouring population in cities. Control of venereal diseases. Sex education, birth control. International control of traffic in women and children.

Commercialised recreation. The right use of the cinema, the theatre, and the radio. Group games, sports, revival of Indian dance.

The drink traffic and traffic in drugs. The case for and against prohibition. Temperance, local option. Betting and gambling. Laws relating to all these in India.

5. The housing problem and slum clearance. Town planning. The cultivation of a civic spirit. Regard for public property. The meaning and implications of a home. Family budget and planning.

6. Women's rights. Women at home. Women in employment. Women in public life. Women as social workers and teachers. The Indian ideal of womanhood.

BOOKS.

PART I.

- * Thomson : What is Man ?
- * Marret : Anthropology.
- * Park and Burgess : Introduction to the Study of Sociology.
- G. H. Cooley : Human Nature and the Social Order.
- Rivers : Social Organisation.
- Hayes : Sociology.
- Bushee : Principles of Sociology.
- Blackman and Gillin : Outlines of Sociology.
- Ellwood : Social Psychology.
- * Jenks : The State and Nation.
- * Wallis and Willey : Readings in Sociology—Chapters II, V, VI, VII, VIII, IX, XI, XIV and XVI.
- R. K. Mukerjee and Sen Gupta : Social Psychology.
- D. P. Mukerjee : The Basic Concepts in Sociology.

- * Stanley Rice: Hindu Customs and their Origin.
- Jethra Brown: Underlying Principles of Modern Legislation

PART II.

- * Gillin: Poverty and Dependency.
- Ford: Social Problems and Social Policy.
- * Elliot and Merrill: Social Disorganisation.
- * Simey: Social Administration.
- Senart: Caste in India.
- * Appasamy: Legal Aspects of Social Reform.
- * Manshardt: Social Legislation in Bombay.
- Visvanathan: Racial Synthesis in Hindu Culture.
- Haikernal: Social and Economic Conditions of Crime in In
- Subramania Pillay: Criminology.
- Sen: Penology.
- * Women's Rights under Hindu Law—Report of Committee appointed by the Maharajah of Mysore.
- Mysore Prison Reform Committee Report.
- * Madras Public Health Act.
- League of Nations Publications on Health, Narcotics, Traffic in Women and Children, etc.
- P. E. P. Publications (England).
- Margaret Read: The Indian Peasant Uprooted.
- R. K. Mukerjee: Feeding India's 400 Millions.
- Gyan Chand: Our Teeming Millions.
- P. J. Thomas and K. C. Ramakrishnan: Some South Indian Villages—Resurveyed.
- Oxford University Pamphlets—(1) J. Natarajan—Social Reform.
- (2) The Cultural Problem by several writers.
- (3) Mrs. Menon—The Women of India.
- Asirvatham—(1) Social Legislation in India in the Golden Jubilee Number of the Madras Law Journal.
- (2) Principles of Social Reconstruction—Madras University Journal, January 1945.

(3) Chapters on Caste, Home, and Recreation—in
 "A New Social Order."

The Journal of Social Work (published by the Tata Graduate School of Social Work).

O'Malley: India's Social Heritage.

* Edited by Blunt: Social Services in India.

* Jolly: Hindu Law and Custom.

* Wiser: Behind the Mud Walls.

* Hatch: Up from Poverty.

Heinrich: The Psychology of the Oppressed.

(Books marked with an asterisk * for detailed study).